

Tecnoalarm®

Hi-Tech Security Systems

General catalog

Sistemi di sicurezza ad alta tecnologia Hi-Tech Security Systems Systèmes de sécurité haute technologie Sistemas de seguridad de alta tecnología Hi-Tech-Sicherheitssysteme

English

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Sistemi di sicurezza ad alta tecnologia Hi-Tech Security Systems Systèmes de sécurité haute technologie Sistemas de seguridad de alta tecnología Hi-Tech-Sicherheitssysteme

High technology burglar alarm systems



Sistemi di sicurezza ad alta tecnologia Hi-Tech Security Systems Systèmes de sécurité haute technologie Sistemas de seguridad de alta tecnología Hi-Tech-Sicherheitssysteme



INDEX

	Tecnoalarm - International leader in security	p. 6
	Tecnoalarm telematic services	p. 10
	Tecnoalarm cutting-edge innovations	p. 11
	RSC® technology	p. 12
	Tecnoalarm apps	p. 14
	Software	p. 16
	Supervisor by Tecnoalarm	p. 20
	Tecnoalarm systems: advanced solutions for any protection requirement	p. 28
	Technical evaluation index	p. 29



Evolution - Hybrid burglar alarm systems	p. 30
---	-------



Hard-wired and wireless burglar alarm systems	p. 72
--	-------

System complements	p. 98
---------------------------	-------

Consoles and control units	p. 102
-----------------------------------	--------

Expansion modules	p. 110
--------------------------	--------

RSC® products	p. 116
----------------------	--------

ASYN@WL wireless products	p. 142
----------------------------------	--------

Detectors	p. 152
------------------	--------

Sirens	p. 164
---------------	--------

Power supplies	p. 168
-----------------------	--------

Accessories	p. 172
--------------------	--------

Merchandising	p. 184
----------------------	--------

Iconography	p. 188
--------------------	--------

General terms of sale and delivery	p. 191
---	--------

Tecnoalarm - International leader in security	p. 6	Hard-wired and wireless burglar alarm systems	p. 72
Tecnoalarm telematic services	p. 10	TP10-42 control panel	p. 74
Tecnoalarm cutting-edge innovations	p. 11	System configuration	p. 76
RSC® technology - Remote Sensitivity Control	p. 12	Internal expansions and interfaces	p. 80
Tecnoalarm apps	p. 14	TP8-88 control panel	p. 82
Software	p. 16	System configuration	p. 84
Programming	p. 18	Internal expansions and interfaces	p. 88
Remote management	p. 18	TP20-440 control panel	p. 90
Monitoring	p. 18	System configuration	p. 92
License options	p. 19	Internal expansions and interfaces	p. 96
Services	p. 19	System complements	p. 98
Supervisor by Tecnoalarm	p. 20	4G communicators	p. 100
Server licenses	p. 22	Ethernet Wi-Fi interfaces	p. 101
Additional licenses	p. 22	Consoles and control units	p. 102
License options	p. 23	Touch screen consoles	p. 103
Software configuration	p. 24	Consoles	p. 104
Tecnoalarm systems: advanced solutions for any protection requirement	p. 28	RFID reader interfaces	p. 105
Technical evaluation index	p. 29	RFID readers	p. 105
Evolution - Hybrid burglar alarm systems	p. 30	Access Point Readers	p. 106
EV 4-24 4G control panel	p. 32	RFID cards	p. 107
System configuration	p. 34	Transponders	p. 107
Internal expansions	p. 38	Outdoor keypads	p. 108
EV 10-50 control panel	p. 40	Stand-alone relay control systems	p. 109
System configuration	p. 42	Expansion modules - Inputs - Outputs - Serial bus	p. 110
Video integration	p. 46	Input expansions	p. 111
Wireless receiver-transmitters	p. 48	Output expansions	p. 112
Wireless extenders	p. 49	Serial extension modules	p. 113
Consoles and control units	p. 50		
RFID reader interfaces	p. 55		
RFID readers	p. 55		
Home automation	p. 56		
Detectors for indoor use	p. 57		
Detectors for outdoor use	p. 66		
Optical smoke detectors	p. 68		
Temperature and humidity detectors	p. 68		
Output expansions	p. 69		
Indoor sirens	p. 70		
Outdoor sirens	p. 71		

RSC® products	p. 116	Power supplies - External - Built-in	p. 168
Input expansions	p. 117	External power supplies	p. 169
External power supplies	p. 119	Built-in power supplies	p. 171
Dual technology for indoor use	p. 120	Accessories - Batteries - Cables - Contacts	p. 172
Passive infrared for indoor use	p. 124	Batteries	p. 173
Dual technology for outdoor use	p. 126	Replacement batteries	p. 174
Passive infrared for outdoor use	p. 128	CPR compliant cables	p. 176
Active infrared for outdoor use	p. 130	Reed contacts - EN 50131-2-6 security grade 3	p. 178
Microwave for outdoor use	p. 136	Reed contacts - EN 50131-2-6 security grade 2	p. 178
Bus sirens for indoor use	p. 139	Reed contacts - EN 50131-2-6 security grade 1	p. 180
Bus sirens for outdoor use	p. 140	Mechanical rod and rope contacts	p. 180
ASYNC@WL wireless products	p. 142	Vibration detectors	p. 181
Receivers	p. 143	Flood detectors	p. 182
Control units	p. 143	Panic buttons	p. 182
Passive infrared for indoor use	p. 144	Additional relay boards	p. 183
Passive infrared for outdoor use	p. 146	Optical repeaters	p. 183
Magnetic contacts	p. 149	Junction boxes	p. 183
Active infrared for outdoor use	p. 150	Merchandising	
Optical smoke detectors	p. 151	Demo-cases - Display equipment	p. 184
Detectors - For indoor use - For outdoor use	p. 152	Apparel - Deterrent signs and labels	
Passive infrared for indoor use	p. 153	Demo-cases	p. 185
Dual technology for indoor use	p. 155	Display equipment	p. 186
Passive infrared for outdoor use	p. 157	Apparel	p. 187
Dual technology for outdoor use	p. 158	Deterrent signs and labels	p. 187
Microwave for outdoor use	p. 160	Iconography	p. 188
Active infrared for outdoor use	p. 162	General terms of sale and delivery	p. 191
Optical smoke detectors	p. 163		
Sirens - For indoor - For outdoor use	p. 164		
Sirens for indoor use	p. 165		
Sirens for outdoor use	p. 167		

TECNOALARM INTERNATIONAL LEADER IN SECURITY



Since 1977: nearly 50 years of research and innovation

Tecnoalarm was born on 14 February 1977 from a great friendship and a strong passion for security. Over the decades, the company has been able to stand out for the quality and high rate of innovation of the products that are designed, manufactured and tested in Italy, in the head offices of San Mauro Torinese, on the outskirts of Turin.

From the beginning, Tecnoalarm has placed great emphasis on advanced technological research and on the development of simple but efficient solutions that meet the requirements of the market.

This has very soon allowed Tecnoalarm to establish itself and grow to the point of being the leader in Italy and strongly present in the world today.

After several years of research, in 2014, the production line of Tecnofire fire detection and extinguishing systems has been launched.

The Turin-based company is preparing to reach an important milestone: 50 years of history which will consecrate it as one of the most prestigious players in the security market. The company devotes a lot of resources to improving the competences of the professionals of the sector and pursuing solutions that conform to the valid standards.

This commitment is based on the brand's pillars: technology, innovation and design, entirely made in Italy.

Tecnoalarm, a brand with a long history and in constant evolution.



Exclusive design by Pininfarina

Tecnoalarm products are renowned for their modern and elegant designs: true home furnishings originating from the long-term collaboration with Pininfarina, one of the world's most prestigious labels of industrial design.



DESIGN BY



Certifications

Tecnoalarm designs and produces its products under an ISO 9001 certified quality management system. The products, following tests carried out by accredited Italian and European notified bodies, have obtained the relevant certificates of conformity with the current standards.



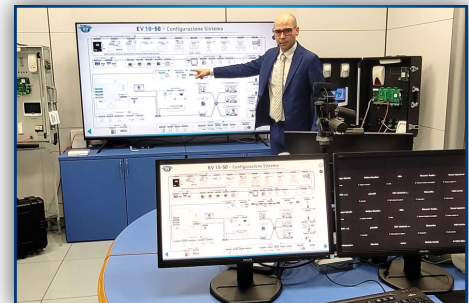
Training and web seminars

The need for constant innovation requires that we, as a manufacturer of security systems, on the one hand produce increasingly sophisticated devices but on the other hand propose refresher courses to enhance the knowledge of the installers and users in terms of security technology.

Tecnoalarm introduces the concept of security professional, by offering on a regular basis **training courses** on the **technologies** implemented in the products, with particular attention to the complex **regulatory framework**.

The face-to-face and online courses are free-of-charge and are addressed to professionals involved in the design, installation and maintenance of security systems.

The constant training increases the **professional** level of the installation companies and offers them new opportunities for business development and growth.



Security professionals

It is only thanks to a well-thought-out project and an **accurate installation**, that you make full use of a Tecnoalarm security system.

For this reason, the systems are installed by professionals who are able to carry out a correct risk analysis and who have a wide experience and technical knowledge acquired in regular training courses.

Tecnoalarm professionals propose solutions which guarantee the **highest level of protection** for your home with both passive and electronic protections, and which comply with the current European standards.



Advanced security solutions

Tecnoalarm has always focused on the complex regulatory framework and developed its products in accordance with the strict **European standards** for electrical safety, electromagnetic compatibility and resistance.

Performance level

During the drafting of a burglar alarm system, it is important to thoroughly assess all the elements that contribute to the **risk analysis**, such as: the location of the installation, the environmental risk, the possible interferences, the values to be protected and the security requirements of the customer. According to the assessed risks, the European standards specify 4 performance levels, and for each of them the compulsory protection facilities.

The three macro areas of protection

In order to better understand the application of the different types of detection devices, we assume to set up an alarm system to protect a detached house.

For this kind of installation, we define three macro areas:

First macro area

Protection of the sensible areas in the indoors (bedroom, living room etc.)

Second macro area

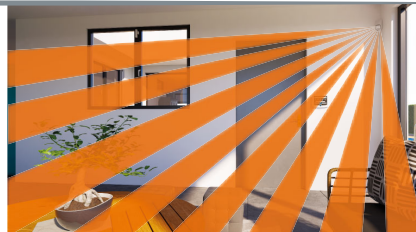
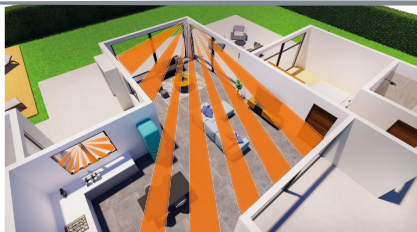
Protection of the outside of the building (doors and windows)

Third macro area

Perimeter protection of the estate (boundary wall or fence)

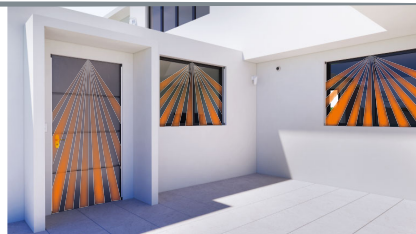
The three macro areas feature considerably different characteristics. The extensive range of detectors from Tecnoalarm offers the perfect fit for each of them.

1 First macro area



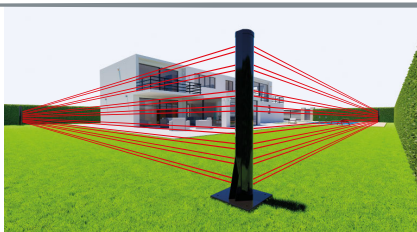
Protection of the sensible areas in the indoors (bedroom, living room etc.)

2 Second macro area



Protection of the outside of the building (doors and windows)

3 Third macro area



Perimeter protection of the estate (boundary wall or fence)

TECNOALARM TELEMATIC SERVICES

The Tecnoalarm systems implement the management of the telematic services **Tecnoalarm Connect Service, DDNS Tecnoalarm, Mail Server Tecnoalarm and SNTP.**

These services are managed automatically by dedicated servers and are provided free-of-charge to the customers of Tecnoalarm in order to simplify and protect the network connection of their systems.

Services



Tecnoalarm Connect Service

Tecnoalarm Connect Service (TCS) connects the Tecnoalarm systems via the internet with the software applications made for both, technical staff and final customers.

TCS arranges the transfer of push notifications towards the Tecnoalarm apps. For technical management, TCS uses the direct addressing to route the Tecnoalarm software towards the alarm system.



DDNS Tecnoalarm

The DDNS Tecnoalarm service automatically records the system's name and IP address on the DNS servers of Tecnoalarm. Whenever the system registers that its IP address has changed, it automatically communicates the new address to the Tecnoalarm DNS servers which update the registered IP address and transmit the information to the DNS servers on the internet.



Mail Server Tecnoalarm

The systems are equipped with a Mailer Client for the transmission of emails to the Mail Server Tecnoalarm. The Mail Server Tecnoalarm provides a hard-programmed account for the system, through which it transmits the emails received from the system to a total of 8 recipients. The emails contain the time of occurrence of the events as well as the system status.



SNTP

The system's internal clock is automatically synchronized with an NTP server which uses the universal coordinated time (UTC).

TECNOALARM CUTTING-EDGE INNOVATIONS

Among the many technologies, products and services that Tecnoalarm has developed over the years, the **Remote Sensivity Control** and the **Remote Digital Verification** that stand out by their exclusivity and added value. RSC® technology evolves and extends to the 2-way wireless devices that work with the **EV@BWL** protocol, implementing new tools for the management and control of the Evolution devices.

Technologies



RSC® (Remote Sensivity Control)

RSC® is the exclusive technology developed by Tecnoalarm for the technical control center of the installation company. A series of sophisticated diagnostic tools allow to remotely program, control and analyze the operating parameters of the control panel, the peripheral devices connected via serial bus as well as the wireless devices of the Evolution range. RSC® technology is a valid tool for a preventive maintenance of the systems and contributes to guaranteeing a continuous and reliable service and ensuring an efficient use of the system's resources.



RDV® (Remote Digital Verification)

Another flagship of Tecnoalarm is the RDV® technology protected by international patent. In case of alarm, it allows the final user to verify in real time if an intrusion is actually going on. The digital alarm signal is transformed into a particular sound signal the intensity of which is directly proportional to the detected movement. This signal is sent to the user's mobile phone or the central monitoring station for the necessary action.

Expansions



TECNOVISION EV

The TECNOVISION module allows you to equip the EV 10-50 system with IP cameras featuring video analysis. By integrating cameras, that are assigned to the virtual zones of the system, numerous new detection methods and new video verification tools are made available. Thanks to Evolution app you can manage the cameras and view the live streams as well as the recorded video clips.



EV@BWL

It is the two-way multichannel wireless protocol that Tecnoalarm has developed specifically for the Evolution range systems. It guarantees maximum security and a good management of energy consumption. With the EV@BWL protocol, the management and monitoring functions of RSC® technology are extended to the wireless devices of the system.



ASYNC@WL

The traditional ASYNC@WL wireless protocol allows to manage the systems of the TP range in the unidirectional mode. It offers a medium security level and a good energy management. The implementation of the wireless devices is made through a specific receiver.

RSC[®] TECHNOLOGY

Remote Sensitivity Control

RSC[®] technology is an innovative platform by which the technical control center of the installer can program and control the burglar alarm system completely from a distance. The sophisticated technology, developed by the **Tecnoalarm research department**, provides advanced diagnostic tools that allow to verify and maintain the functional capacity of each system component as well as adjust and improve the system's performance. RSC[®] technology is a valid tool for a preventive maintenance of the systems.



System configuration

Programming of the system's operating parameters can be made either locally or remotely using the Tecnoalarm programming software.



Hardware coherence

The Hardware coherence tool analyzes the RSC[®] devices and draws a system overview which contains all the logical and functional parameters.



System analysis

The System analysis tool collects and records the electrical parameters of the system components. The comparison of the data collected over time allows to determine a possible degradation of the electrical characteristics before it causes problems.



Serial data analysis

The Serial data analysis tool constantly monitors all of the system's communication buses, Serial Bus, Sensor Bus and Siren Bus, and verifies the correctness of the exchanged data.



BWL routing table

The BWL routing table tool detects and views the identification data and the electrical communication parameters of the wireless Evolution devices in a table. The tool allows to objectively assess the wireless coverage of the receiver-transmitter and the wireless extender.



Alignment monitor

The alignment monitor tool for the RSC[®] barriers permits electronic monitoring of the alignment of the beams. For each beam of the barrier, the tool shows the captured signal and compares it with the reference values recorded during setup.



Zone monitor

The Zone monitor tool permits the real time control of the functional capacity of the RSC[®] detectors.



Alarm graph

The alarms coming from the RSC[®] detectors are stored in the system's event buffer together with a graph indicating functioning at the moment the alarm has occurred. By analyzing the graph, it is possible to determine and understand the cause of the alarm.



Event log

The event log contains all the events relating to the system's operation, i.e. alarms, diagnostics and system status signaling. They are stored in reverse chronological order, with indication of date and time.



Device monitor

The possibility of monitoring and remotely adjusting the operating parameters of the devices connected to the serial bus represents a valid tool for assessing the functional performance of the devices.

Communication buses and security

The Tecnoalarm systems use three separate communication buses, dedicated to different kinds of devices: the standard RS485 serial bus called Serial Bus, the bus of the RSC[®] detectors called Sensor Bus and that of the RSC[®] sirens called the Siren Bus. They are independent and use specific communication protocols.

The data are encrypted to ensure a high level of protection against sabotage attempts.

Documentary support

As prescribed by the European standards, on delivery of the installation, the installer must issue a document that specifies the composition of the system and certifies the efficiency and consistency of the installed devices with the project.

The system overview is easy to draw with the Hardware coherence tool of the Tecnoalarm software whereas the System analysis tool helps to keep a record of the electrical parameters of the devices. In the event of an alarm, the installer can give the user precise answers supported by data and alarm graphs from the event memory.

Installation costs

The RSC[®] technology permits a reduction of the times and costs of installation by up to 70% through simplified wiring.

After the setup, the Hardware coherence tool helps to find possible errors made during installation and programming.

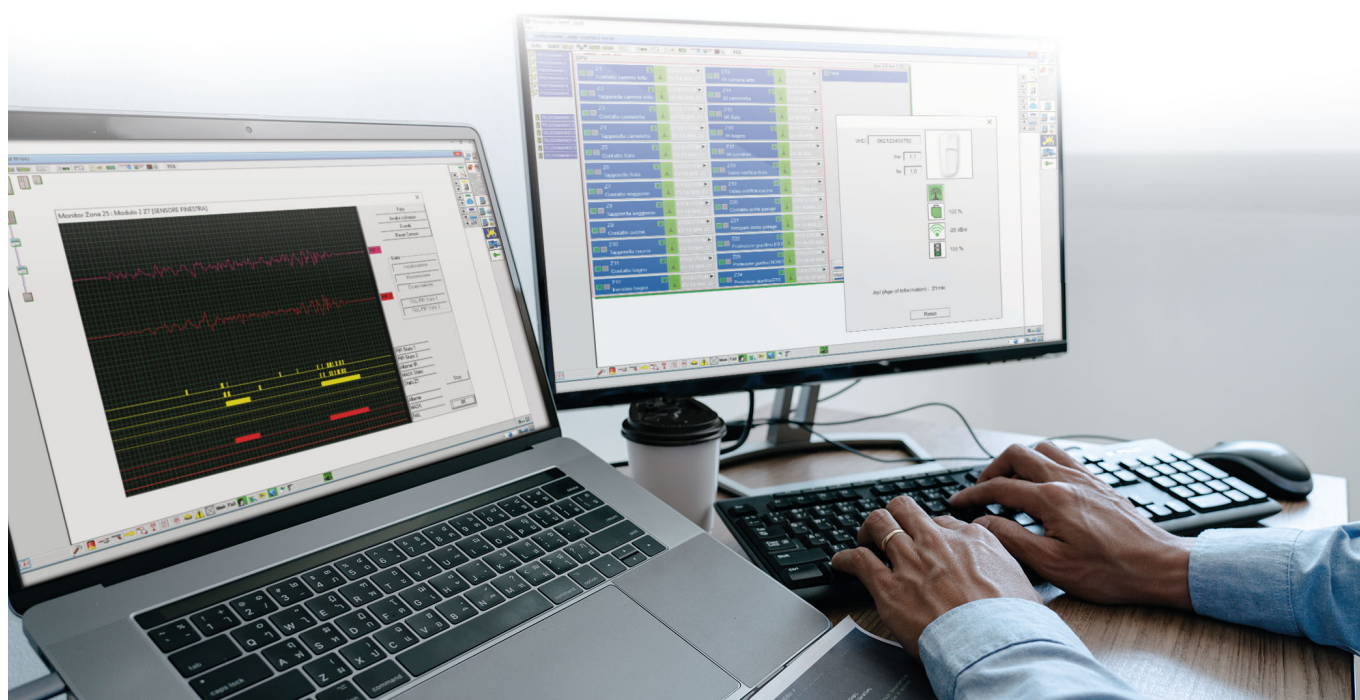
This tool verifies the presence of all the components, measures the power supply voltage of the devices and reads the internal temperature of the detectors which base their functioning principle on the temperature delta.

Maintenance and control

The technician of the installation company can check the setting and functioning of each device and adapt programming from its office without being on the site.

Accordingly, at least one of the two annual inspections required by the standards can be made remotely.

From a distance, he can also control the operating parameters of the Evolution range wireless devices, such as the status of the battery or the quality of the wireless signal.



TECNOALARM APPS

With the **Tecnoalarm apps**, the management and control of the alarm system is something handy, accessible **from anywhere and anytime**, with the functionality and simplicity of a remote control.

The apps connect the user with the system in real time, speed and effectiveness.

Standard commands, menu shortcuts and the Alexa voice control contribute to manage the alarm system and the home automation of either the principal dwelling, the holiday cottage or the office in a natural and intuitive way. Detailed and filterable push notifications inform the user about the operating state of the system and possible failures.

Security and privacy are ensured by an encrypted communication protocol and a double security code: passphrase and access code, optionally replaceable by the practical biometric authentication.



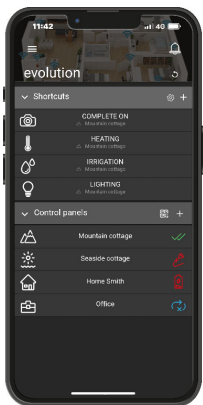
evolution



myTecnoalarm TCS



myTecnoalarm



evolution

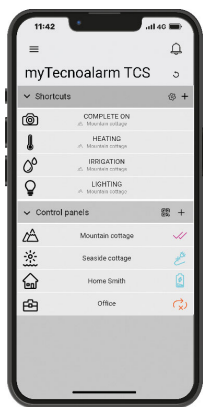


Evolution

The app for the Evolution systems

- Connection via **TCS** (Tecnoalarm Connect Service)
- Voice control with **Amazon Alexa**
- Compatible systems: **EV 4-24 4G - EV 10-50**





myTecnoalarm TCS



myTecnoalarm TCS

The app for the latest TP systems

- Connection via **TCS** (Tecnoalarm Connect Service)
- Voice control with **Amazon Alexa**
- Compatible systems: **TP10-42 - TP8-88 - TP20-440**



myTecnoalarm



myTecnoalarm

The app for the TP and Videoalarm systems

- Connection with **static IP** address, **DDNS** or **TCS** (Tecnoalarm Connect Service)
- Videosurveillance with Videoalarm IP
- Compatible systems: **TP8-28 - TP8-28 GSM - TP16-256 - TP8-96 VIDEO - TP16-512 - TP10-42 - TP8-88 - TP20-440**





Software

Whatever your business model, you will find in the **Tecnoalarm software** the most suitable solution to build customer loyalty and expand your business. Three software, a world of constantly evolving services and additional functionalities, that can be implemented through plug-ins, allow to set up interesting after-sales services for your customers.

The Tecnoalarm software represent an investment able to **increase the professional value of your activity and reduce the costs and time of maintenance of the alarm systems.** Through the remote connection, it is possible to assess the need for preventive and/or corrective maintenance operations at an early stage. Remote management minimizes the need for travelling the territory, thus reducing the connected costs.

**With the Tecnoalarm software
you are able to offer a professional customer service.**

**Programming**

The programming software permits the configuration of the Tecnoalarm systems, either locally through the PROG USB interface or via the LAN.

**Remote management**


The TCP/IP software allows to remotely program and control the Tecnoalarm systems via the WAN.

**Monitoring**


The Tecnomonitor software permits monitoring of one Tecnoalarm system either locally, through the PROG USB interface, or via the LAN.

The Tecnoalarm software include the Programming Data Check, which automatically compares the version of the configuration present on the connected control panel with that saved in the archive and signals possible discrepancies.


Programming


	<p>PROGRAMMING SOFTWARE PROGRAMMING</p> <p>Programming software for Windows 32/64 bits - Configuration of the Tecnoalarm systems either locally, through the PROG USB interface, or via the LAN - RSC® management</p>
	<p>Item no. F130SOFTWARE/RW</p>

Remote management






	<p>TCP/IP SOFTWARE TCP/IP</p> <p>Remote management software for Windows 32/64 bits - Programming and control of the network-compatible Tecnoalarm systems via the WAN using proprietary TCP/IP protocols - Reception and management of the event notifications - RSC® management - Hardware key (dongle) required Available in several configurations for the management of 10 to 1000 systems</p> <p style="text-align: right;">Included options 1 9 14</p>
	<p>TCP/IP 10 Item no. F130SWTCPIP/10</p>
	<p>TCP/IP 50 Item no. F130SWTCPIP/50</p>
	<p>TCP/IP 100 Item no. F130SWTCPIP/100</p>
	<p>TCP/IP 1000 Item no. F130SWTCPIP</p>

Monitoring




























	<p>TECNOMONITOR MONITORING</p> <p>Monitoring software for Windows 32/64 bits - Monitoring of one Tecnoalarm system either locally, through the PROG USB interface, or via the LAN - Creation and management of 30 floor plans - Hardware key (dongle) required</p> <p style="text-align: right;">Included option 2</p>
	<p>Item no. F130TECNOMONIT</p>

	<p>TWINMONITOR</p> <p>Monitoring software for Windows 32/64 bits - Monitoring of simultaneously one Tecnoalarm and one Tecnofire system either locally, through the PROG USB interface, or via the LAN - Creation and management of 30 floor plans for each system - Hardware key (dongle) required</p> <p style="text-align: right;">Included option 2</p>
	<p>Item no. F130TWINMONITOR</p>

SOFTWARE - Accessories

<p>PROG USB</p>	   
	<p>Programming interface and hardware key (dongle) - Permits the serial connection between the PC and the control panel for local programming/monitoring - Paired with the monitoring and the remote management software it also functions as a copy protection</p> <p>Item no. F130PROGUSB</p>

License options

FLOOR PLANS	License option for the import, creation and management of 30 floor plans for each system	Option			
Item no. F130PLANIMETRIE		2			
ARMING/DISARMING CONTROL	License option for the arming status check during a determined period of time	Option			
Item no. F130CONINSDIS		3			
NETWORK	License option for the LAN connection of a total of 8 PC using the same user license	Option			
Item no. F130RETE		4			
OUT PROT	License option for the recording and the transmission of events via serial bus to non-Tecnoalarm monitoring stations	Option			
Item no. F130OUTPROT		5			
SMS	License option for the signaling of determined events via SMS or e-mail N.B. Requires the acceptance of specific terms of use	Option			
Item no. F130GESTIONESMS		8			
REMOTE IP	License option for remote management with TECNOMODEM via WAN	Option			
Item no. F130REMOTEIP		9			
ADVANCED PROGRAMMING LEVEL 1	License option for the first advanced programming level of the compatible control panels	Option			
Free-of-charge		10			
ADVANCED PROGRAMMING LEVEL 2	License option for the second advanced programming level of the compatible control panels N.B. Requires the acceptance of specific terms of use	Option			
Item no. F130AVANZATA		11			
SINOTTICO	License option for the import, creation and management of a virtual signaling panel with 512 elements providing 5 system status signals each N.B. Only for remote management via WAN	Option			
Item no. F130SINOTTICO		14			
TECNOMSG	License option for the customization of the vocabulary of the control panels	Option			
Item no. F130TECNOMSG		15			
DEVICE IP	License option for the management of the Videoalarm IP devices	Option			
Free-of-charge		19			
TF	License option for the management of the Tecnofire fire alarm systems	Option			
Item no. F130FIRE		23			
TCS	License option for the activation and configuration of the Tecnoalarm Connect Service	Option			
Free-of-charge		26			
TECNOCLOUD	License option for the management of the Tecnocloud telematic service	Option			
N.D.		28			
VIRTUAL ZONES TECNO OUT/SUPERVISOR	License option for the management of virtual zones through Tecno Out/Supervisor	Option			
F130TECNOOUT		29			
IP ZONES	License option for the management of IP zones	Option			
F130ZONEIP		30			

Services

LICENSE COPY	Copy of the user license for any Tecnoalarm software
Item no. F130LICSOFTWARE	
TRANSFORMATION	Transformation of a Tecnomonitor or TFSW-Tecnomonitor into Twinmonitor software or reconfiguration of a TCP/IP software with more users N.B. The entire software pack (license + PROG USB) must be returned. For reconfiguration of TCP/IP software, please refer to marketing department.
Item no. F130TRASFMON	



Supervisor by Tecnoalarm



Supervisor by Tecnoalarm is a modern supervision software available in three configurations:

Supervisor Monitor, Supervisor and Supervisor Plus.

It has a modular structure and is easily configurable through a wide range of plug-ins and license options.

Supervisor is ideal for any application, whether a simple system made of one control panel or a complex system architecture is concerned.

Creating a perfect synergy with the intrusion and fire alarm systems from Tecnoalarm and Tecnofire, the software becomes a true reference in the world of supervision, as for instance in the **safety, security** and **emergency** management market

Server licenses

Four modular server licenses adapt to any area of application, from the supervision of a single control panel to that of multi-panel systems.

Additional licenses






















Additional server or client licenses expand the software together with the application field in order to respond to new operational requirements.

License options



The license options allow to implement a great variety of functions and services, such as video recording, multi-tenant or multi-monitor management or the application of management rules for multi-user systems.




	COMPARISON OF CONFIGURATIONS		
	supervisor monitor	supervisor	supervisor plus
CONTROL PANELS MANAGED	1	1 to 20	Not defined
CLIENTS MANAGED	1	1 to 5	1 to 40
RESTRICTION GROUPS	1	Max. 5	Max. 40
MONITORS PER SITE	1	1 to 4	
DATA POINTS MANAGED	Depending on control panel		
GRAPHIC MAPS MANAGED	Unlimited		
LIVE STREAMS MANAGED	Unlimited		
USERS MANAGED	Unlimited		

Server licenses







TASVM-MONITOR						
	Supervisor Monitor server license for the supervision of 1 control panel - 1 client for viewing and management can be installed either on the same PC as the server license or on a remote PC connected via LAN/WAN N.B. The Supervisor Monitor license can be converted into a Basic Supervisor server license, using the TASVM-UPGRADE license.					
	Item no. F140SVMONITOR					
TASV-1PA-1CL						
	Basic Supervisor server license for the supervision of 1 burglar alarm panel (expandable to 20 through additional server licenses) - 1 client for viewing and management can be installed either on the same PC as the server license or on a remote PC connected via LAN/WAN (expandable to 5 through additional client licenses)					
	Item no. F140SV1PA1CL					
TASV-10PX-1CL						
	Multi-panel Supervisor server license for the supervision of 10 fire/burglar alarm panels (expandable to 20 through additional server licenses) - 1 client for viewing and management can be installed either on the same PC as the server license or on a remote PC connected via LAN/WAN (expandable to 5 through additional client licenses)					
	Item no. F140SV10PX1CL					
TASV-20PX-1CL						
	Multi-panel Supervisor server license for the supervision of 20 fire/burglar alarm panels - 1 client for viewing and management can be installed either on the same PC as the server license or on a remote PC connected via LAN/WAN (expandable to 5 through additional client licenses)					
	Item no. F140SV20PX1CL					

Additional licenses

TASV-ADD-1PA	Additional Supervisor server license implementing 1 further burglar alarm panel	
	Item no. F140SVADD1PA	
TFSV-ADD-1PF	Additional Supervisor server license implementing 1 further fire alarm panel	
	Item no. TF11SVADD1PF	

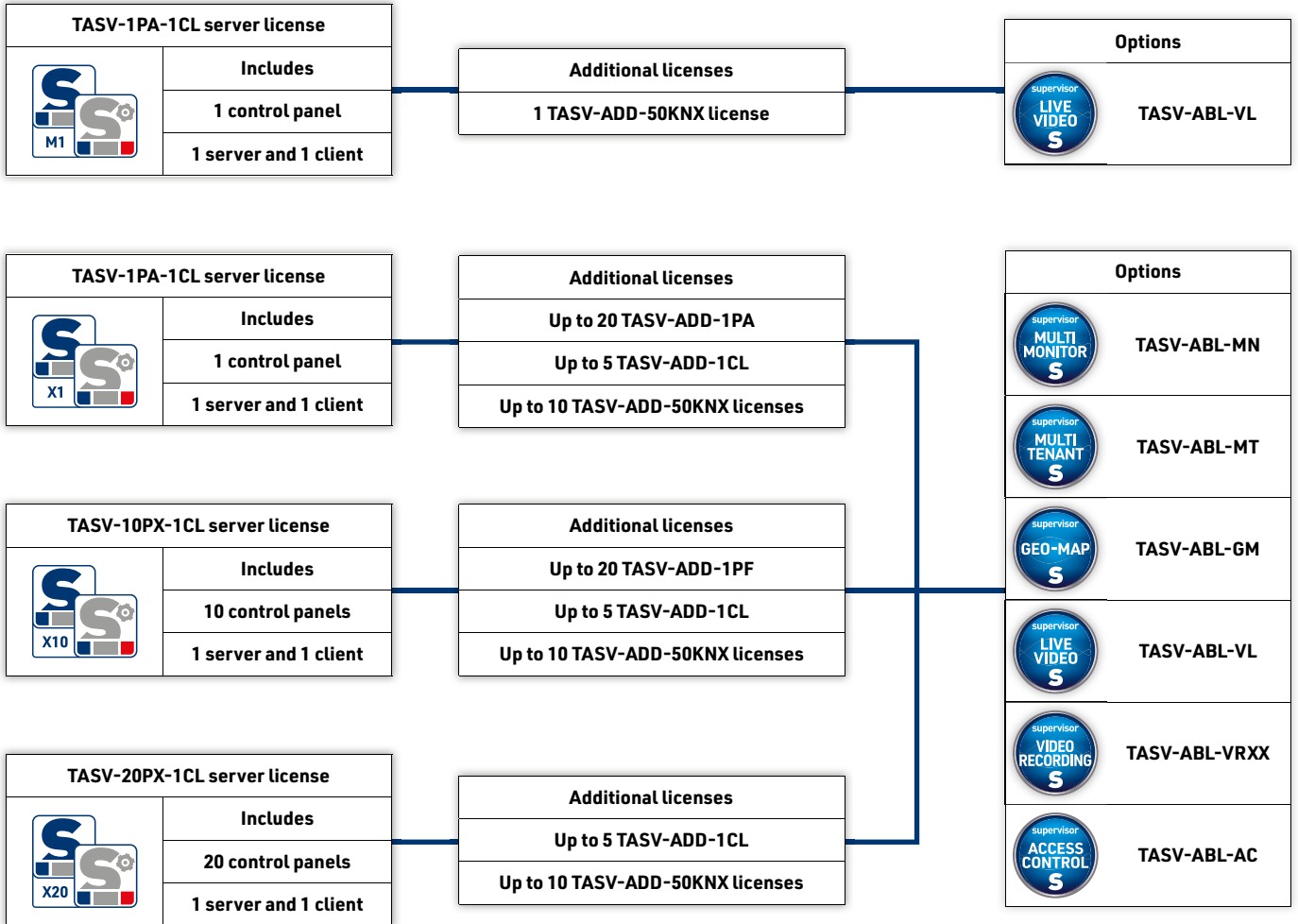
TASV-ADD-1CL	Additional Supervisor client license for viewing and management to be installed on a remote PC connected via LAN/WAN	
	Item no. F140SVADD1CL	
TASV-ADD-1HV	NVR license implementing the management of an NVR in Supervisor server licenses N.B. For the list of NVR managed refer to the marketing department.	
	Item no. F140SVADD1HV	
TASV-ADD-50KNX	KONNEX license implementing the management of the KNX standard protocol - Allows the management of home automation systems using KONNEX devices - Manages up to 50 KNX groups	
	Item no. F140SVADD50KNX	

License options

TASV-ABL-MM	MULTI-MONITOR - Option for Supervisor server licenses - Permits the operation of max. 4 monitors by each client	
	Item no. F140SVABLMM	
TASV-ABL-MT	MULTI-TENANT - Option for Supervisor server licenses - Permits the division of the database into max. 5 restriction groups (tenants) - For each of them it is possible to define different operating restrictions, supervised areas and functions.	
	Item no. F140SVABLMT	
TASV-ABL-GM	GEO MAP - Option for Supervisor server licenses - Permits the creation of HTML pages with GPS positioning using OpenStreetMaps (OMS)	
	Item no. F140SVABLGM	
TASV-ABL-EN	EN - Option for Supervisor Plus server licenses - Implements the monitoring station management functions required by the EN 50518 standard, such as data packet or event log encryption	
	Item no. F140SVABLEN	
TASV-ABL-VL	LIVE VIDEO CAPTURE - Option for Supervisor server licenses - Permits the live capture of an indefinite number of RTSP or Onvif RTSP streams-Viewing of the streams on request or automatically in the event of an alarm	
	Item no. F140SVABLVL	
TASV-ABL-VRXX	VIDEO RECORDING - Option for Supervisor server licenses - Permits the live capture of an indefinite number of RTSP streams and the recording of Onvif RTSP streams coming from IP cameras on the LAN, as well as the use of plug-ins for reproduction	
	Item no. F140SVABLVRXX	

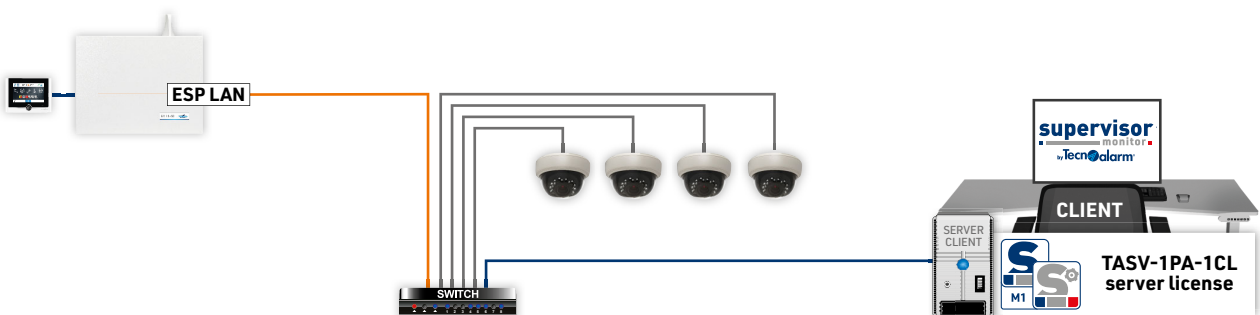
SUPERVISOR LICENSE SCHEME

The configuration of the Supervisor software requires a server license, chosen based on the number of control panels to be supervised. The additional licenses allow you to add the management of other control panels and expand the number of clients. The license options allow you to implement the Supervisor software with various functions and services.



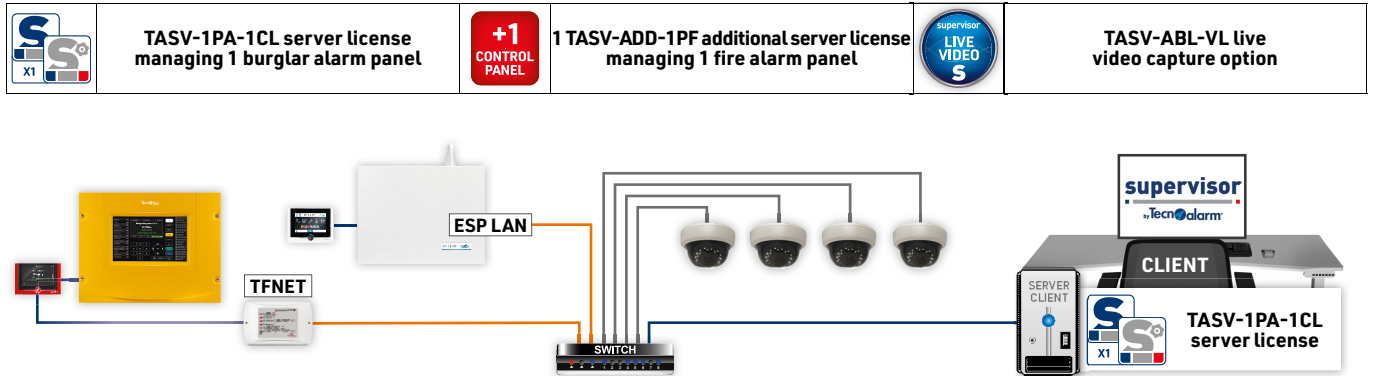
SUPERVISOR MONITOR LICENSE SCHEME

Supervisor Monitor server license allows you to supervise a system, composed of 1 supervision station, 1 control panel and IP cameras connected to the same LAN, from a local client location. The license can only implement the live video capture option.



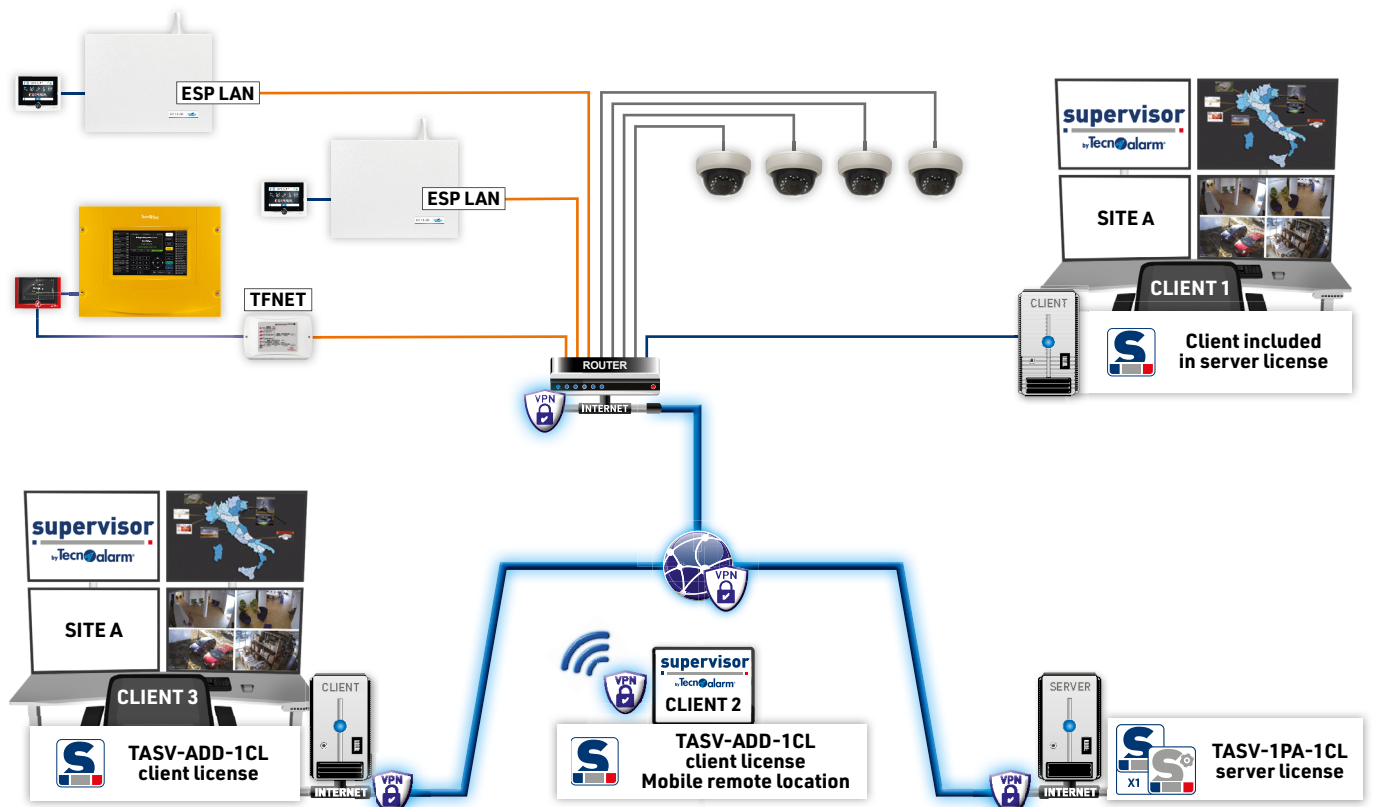
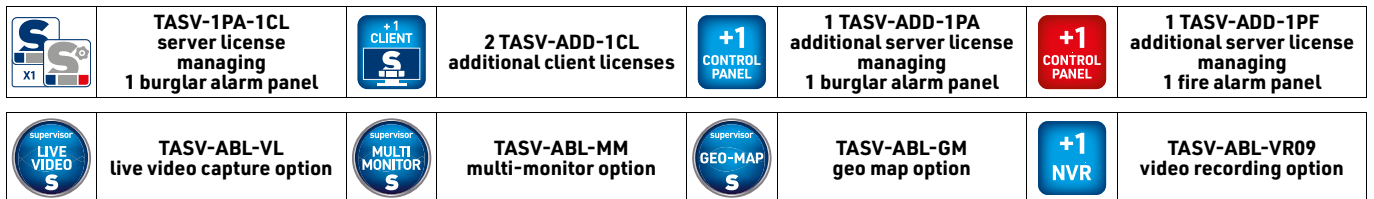
SUPERVISION VIA LAN

The example illustrates the supervision of a system, composed of 1 supervision station, 1 burglar control panel, 1 fire alarm panel and IP cameras connected to the same LAN, from a local client location.



SUPERVISION VIA LAN AND WAN

The example illustrates the supervision of a system, composed of 1 supervision station, 2 burglar control panels, 1 fire alarm panel and IP cameras connected to the same LAN, from 3 client locations. The system is supervised by 1 local, 1 remote and 1 mobile remote location connected via the WAN.

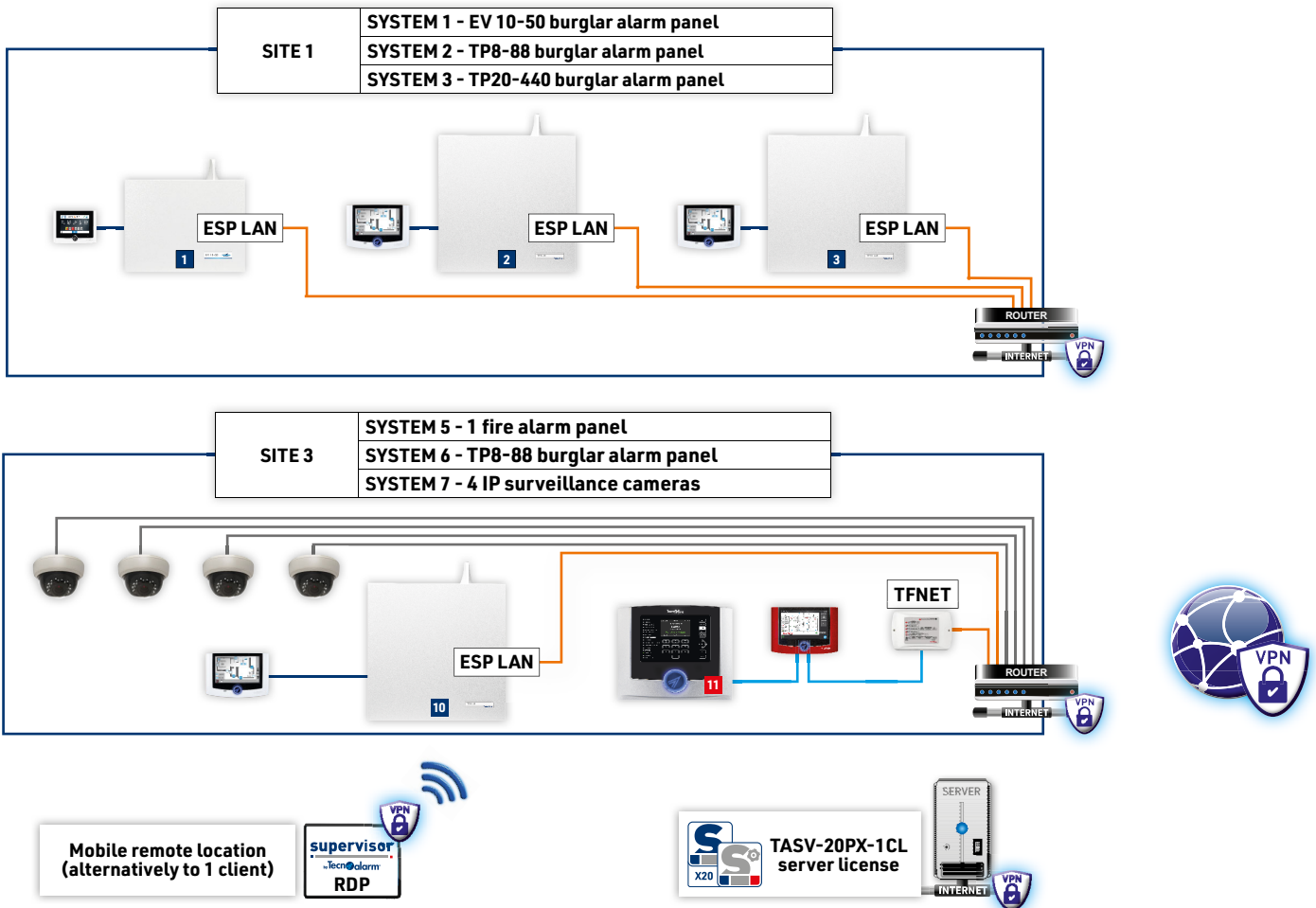


DISTRIBUTED SUPERVISION

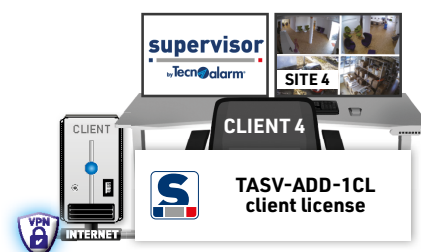
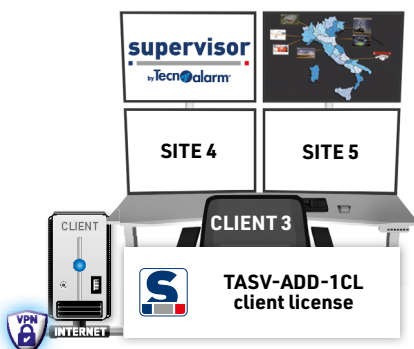
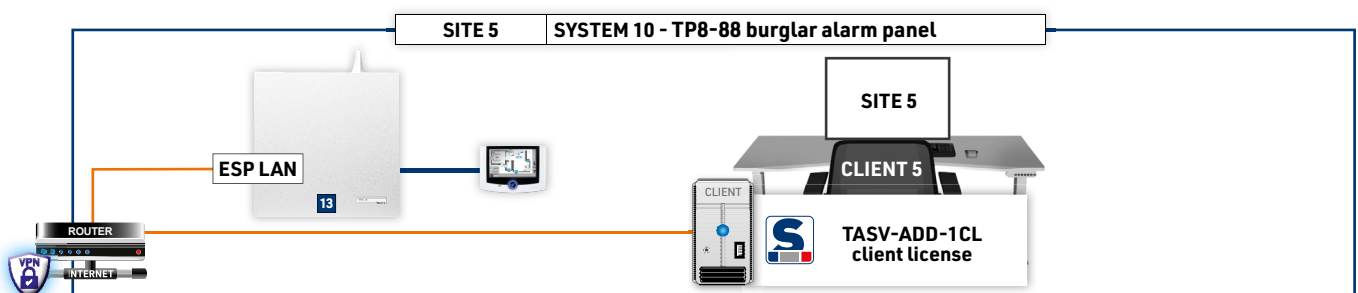
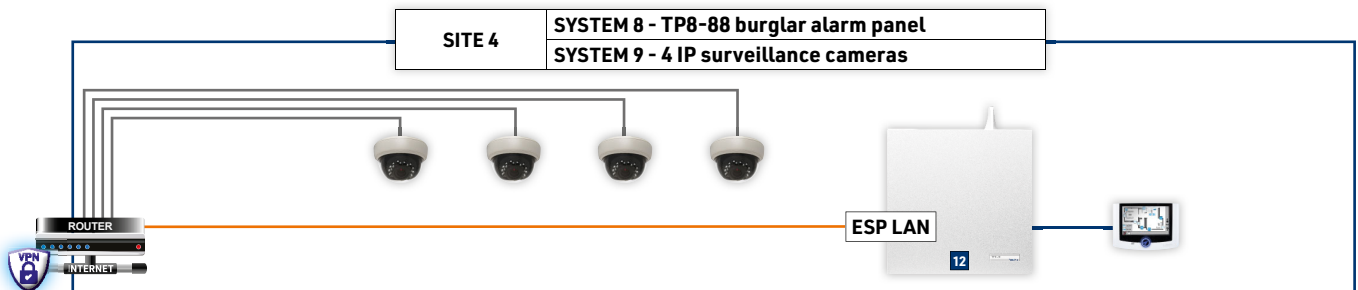
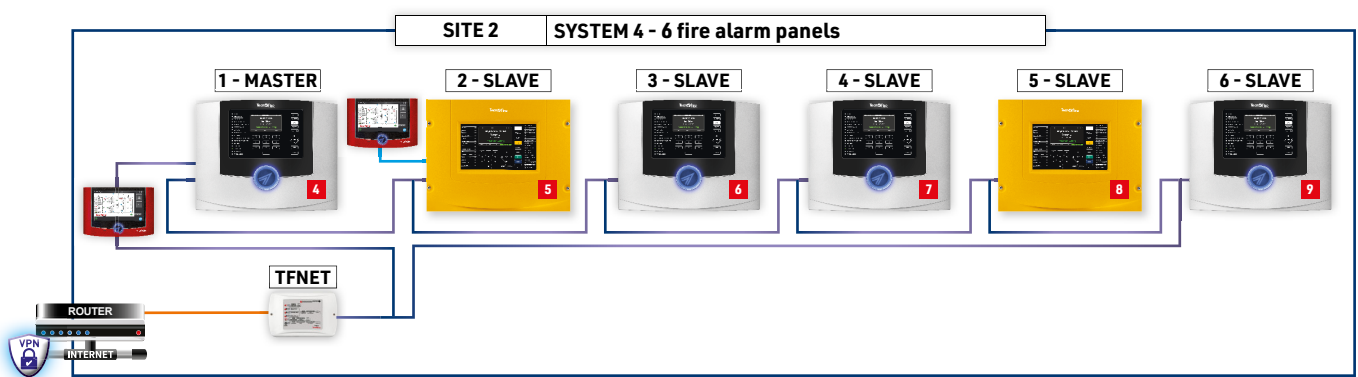
The example illustrates the supervision of one or more systems connected via the WAN from 5 geographically spread sites. One system is also supervised from a local client location.

The example also illustrates the operational restrictions imposed by the multi-tenant option that restricts the client operation to the relevant sites only.

	TASV-20PX-1CL server license managing 13 out of 20 control panels										
	1	2	3	4	5	6	7	8	9	10	
	5 TASV-ADD-1CL additional client licenses				TASV-ABL-MM multi-monitor option				TASV-ABL-MT multi-tenant option		
	TASV-ABL-GM geo map option				TASV-ABL-VL live video capture option				TASV-ABL-VR09 video recording option		



Software configuration



TECNOALARM SYSTEMS: ADVANCED SOLUTIONS FOR ANY PROTECTION REQUIREMENT

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TP
SYSTEMS



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DESIGN BY

pininfarina

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TECHNICAL EVALUATION INDEX

Only a constant technological development is able to guarantee the highest standards of protection and security over time. The company's great attention to the updates of the relevant standards and the implementation of innovative features and services support this process. To depict the rapid technological advancement of the Tecnoalarm systems and to provide a useful comparison tool, that assesses the intrinsic value of equipment and services, Tecnoalarm uses the "technical evaluation index".

Technical evaluation index

The index rates the technical merit of the systems on the basis of three equipment categories and specific parameters. The merit of each category is expressed by a letter from A to C, the letters of all three compose the technical evaluation index of the system.

Serial ports

The category groups connection ports with different specializations: system management (Serial Bus), management of intelligent alarm detection devices (Sensor Bus), management of alarm notification devices (Siren Bus) and management of wireless extensions (WL Bus).

Communication devices

According to the protocols (encrypted/unencrypted) and transmission formats (PSTN/GSM/IP) used, the integrated and optional communication devices are classified into the performance levels specified by the EN 50131 and EN 50136 standards.

Telematic services and apps

The category verifies the implementation of the connectivity services TCS and DDNS Tecnoalarm as well as the possibility of remote management by app.

Technical evaluation index	Serial ports				Communication devices				Telematic services and apps			
	SERIAL BUS	SENSOR BUS	SIREN BUS	WL BUS	PSTN	4G LTE	IP	4G GSM-EXT	TCS	DDNS TECNOALARM	evolution	myTecnoalarm TCS
EV 4-24 4G EV 4-24 4G EN	-	-	-	-	-	SP3...5 DP1...DP4	SP3...5	-	-	-	-	-
	B				A				A			
EV 10-50 EV 10-50 EN	-	-	-	-	-	SP3...5 DP1...DP4	SP3...5	SP2	-	-	-	-
	A+				A				A			
TP10-42 TP10-42 EN	-	-	-	-	SP2	SP3...5 DP1...DP4	SP3...5	SP2	-	-	-	-
	A				A				A			
TP8-88 TP8-88 EN	-	-	-	-	SP2	SP3...5 DP1...DP4	SP3...5	SP2	-	-	-	-
	A				A				A			
TP20-440 TP20-440 EN	-	-	-	-	SP2	SP3...5 DP1...DP4	SP3...5	SP2	-	-	-	-
	A				A				A			

A+: maximum equipment - A: excellent - B: good - C: satisfactory - SP: single path - DP: dual path
The SP and DP values indicate the performance level achieved by either a single communication device or a combination of two, according to the EN 50131 and EN 50136 standards.



Hybrid burglar alarm systems


MADE IN ITALY



EV
SYSTEMS

evolution

TecnAlarm®



DESIGN BY

pininfarina

Synchronized two-way wireless system
Programming, management and control via TCS



EV 4-24 4G



Serial control panel 24 wireless and up to 12 hard-wired zones Remote programming and management



EV 4-24 4G

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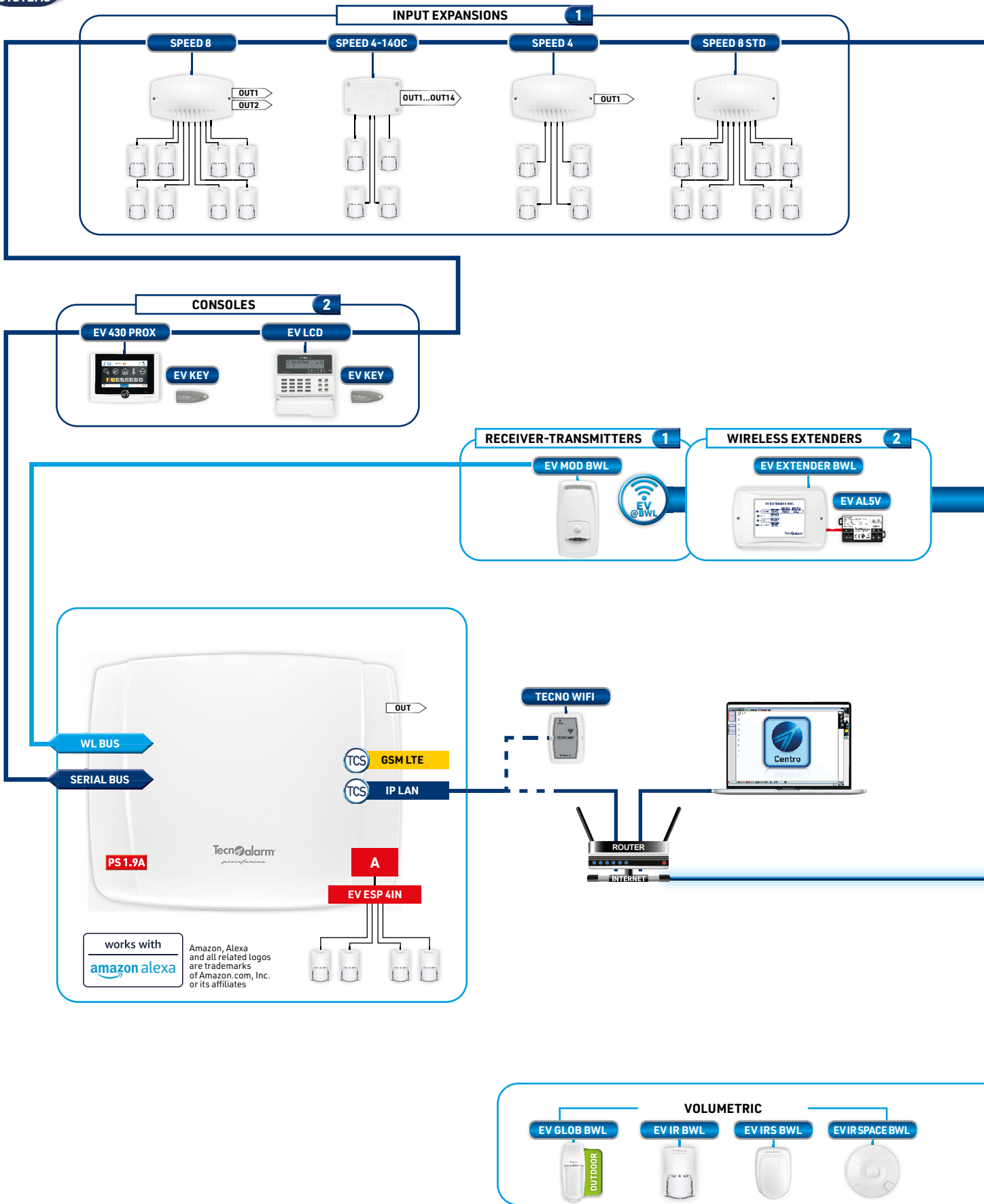
ZONES	EV 4-24 4G	EV MOD BWL	EV ESP 4IN	SPEED 8 STD	SPEED 4	SPEED 4-140C	SPEED 8
WIRELESS	-	24	-	-	-	-	-
CONVENTIONAL*	-	-	4	8	4	4	8

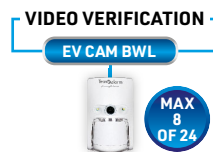
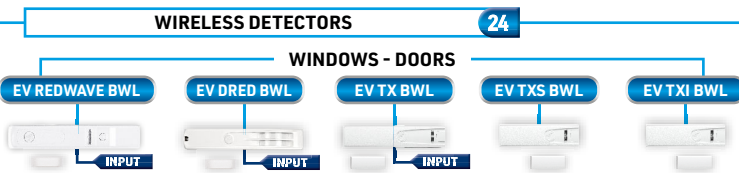
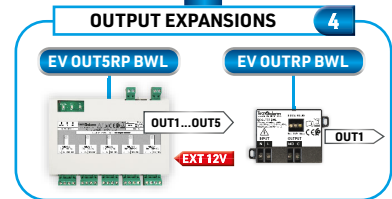
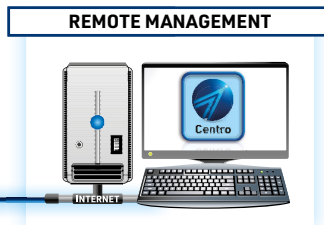
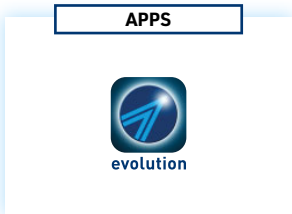
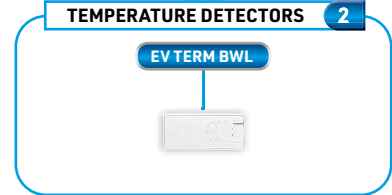
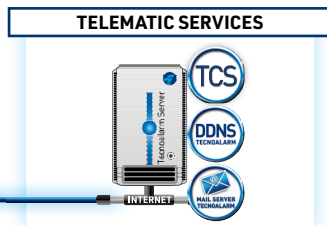
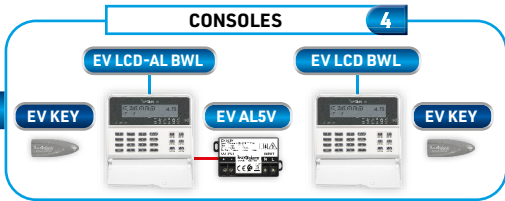
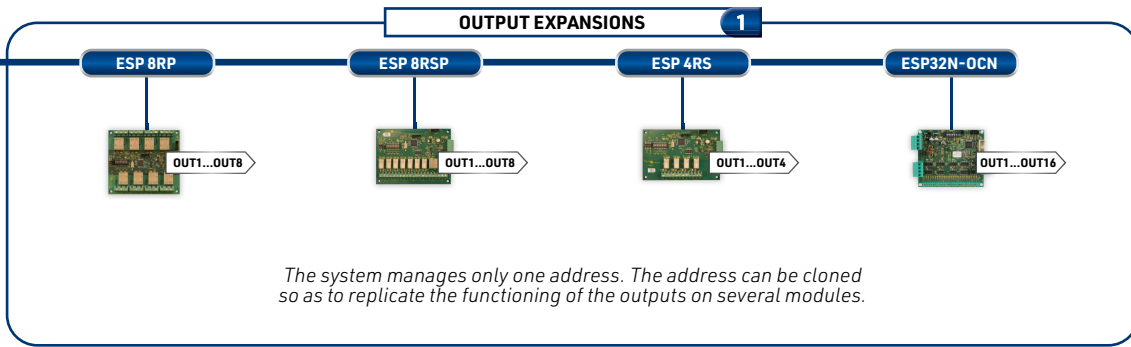
* The following contact types can be programmed: NC (normally closed), NO (normally open), BIL (end-of-line resistor), B24 (double end-of-line resistor). The following filters can be programmed: time, pulse count or vibration.

Technical evaluation index	Serial ports				Communication devices				Telematic services and apps			
	SERIAL BUS			WL BUS	4G LTE	IP			TCS	DDNS TECHNOALARM	evolution	
EV 4-24 4G EV 4-24 4G EN		-	-		SP3...5	SP3...5	-					-
	B				A				A			

A+: maximum equipment - A: excellent - B: good - C: satisfactory - SP: single path - DP: dual path
The SP and DP values indicate the performance level achieved by either a single communication device or a combination of two, according to the EN 50131 and EN 50136 standards.

EV 4-24 4G





EV 4-24 4G

- 24 logic zones
- Max. 12 conventional hard-wired zones
- Max. 24 wireless zones
- 1 tamper input
- 1 programmable alarm output
- 2 logic sirens
- 1 WL Bus port for connecting the EV MOD BWL module
- 1 Serial Bus port for connecting conventional peripheral devices
- On-board IP and 4G LTE communication devices
- ATE category: Single Path SP3...SP5 and Dual Path DP1...DP4
- 8 channels for event notification
- 1 call back channel for connection with a monitoring station
- 2 telephone numbers/IP addresses per channel
- 37 protocols for transmission in the formats: Speech, SMS, Ring, Data, E-mail and TCS
- Security: AES 128 and 256 bits data encryption
- 4 Server TCP/IP channels with access controlled by passphrase and white list
- 8 Client TCP/IP channels with customizable encryption key
- Test call with TCP/IP
- GSM network cell scanner function
- Jammer detector function
- Management of the telematic services TCS, DDNS Tecnoalarm, SNTP and Mail Server Tecnoalarm
- Voice synthesis
- 6 programs with individual time settings
- Management of multiuser systems with common zones
- Programmable coincidence function
- 50 access codes
- 20 transponders
- 20 wireless keys
- 6 remote controls
- 8 timers
- 4 access periods
- 6 cyclic timers
- Customizable 40-character splash message
- Customizable biennial or perpetual calendar
- Automatic Daylight Saving Time/Local Sidereal Time change
- 2-zone thermostat with weekly schedule
- Digital control of the radio range and interferences
- Event buffer with a capacity of 32,256 events
- Bay for 12V/7Ah battery
- Battery test with automatic disconnection in case of failure
- On-board 1.9A switching power supply
- EN 50131 certification, security grade 2

EV 4-24 4G

evolution

Technologies and services								
Standard equipment								
Expansions								
Control modes								
Automation								

EV 4-24 4G - Technical and functional specifications

Zones	Total logic zones	24	Telematic services	TCS	✓
	Total hard-wired zones	12		DDNS Tecnoalarm	✓
	Total wireless zones	24		Mail Server Tecnoalarm	✓
				SNTP	✓
Outputs	Outputs	1	Internal expansion	Input expansion	1
	Logic sirens	2			
System features	RS485 serial buses	WL Bus Serial Bus	Wireless expansions	Wireless receiver-transmitter module	1
	Voice synthesis	✓		Extenders	2
	Image memory	Micro SD (optional)		Total detectors	24
	Event buffer capacity	32,256 events		Synchronized detectors	8
Programs and access management	Programs	6		Temperature detectors	2
	Codes	50		Consoles	4
	Transponders/RFID	20		RFID readers	2
	Wireless keys	20		Sirens	3
Automation	Timers	8		Output expansions	4
	Access periods	4		Serial expansions	Input expansion
	Thermostat	2-zone	Consoles		2
	Calendar	Biennial or perpetual	Output expansions		1
	Memo messages	2	Apps	App (iPhone + Android)	evolution
	Splash messages	1 (max. 40 characters)			
	Remote controls	6	Electrical specifications	Operating voltage	230V AC +/- 10% 50Hz
	Test call with TCP/IP	✓		Consumption CPU board	190mA @ 13.8V DC
Cyclic timers	6	Power supply		1.9A @ 14.4V DC	
		Battery		12V/7Ah	
Alarm transmission equipment	Communication formats	IP 4G LTE	Physical specifications	Environmental class	II
	Wi-Fi module (optional)	TECNO WIFI		Casing	ABS
	ATE categories	SP3...SP5 DP1...DP4		Dimensions (L x H x D)	350 x 285 x 93mm
	Communication protocols	37		Weight (w/o battery)	2.7kg
	Encryption	AES 128/256 bits	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-5-3 EN 50131-6 EN 50136-2
	Passphrase	Programmable		Security grade	2 (EV 4-24 4G EN)
	Event notification channels	8		Notified body	IMQ
	Server TCP/IP channels	4			
	Client TCP/IP channels	8			
	Transmittable events	110			
	Telephone numbers/ IP addresses	2 per channel (max. 24 digits)			
	Call event queue	64			

Internal expansions

Internal expansions

EV MOD BWL										
 		Mounting position		A	B					
		<p>Highly sensitive multi-channel UHF receiver-transmitter - 868MHz frequency band - Digital modulation - EV@BWL protocol - AES 128 bits encryption - Integrated RSC® technology: remote programming and management - Connection via WL Bus - Mounting inside the control panel casing or surface mounting at max. 50m distance - Anti-tamper protection: anti-opening/antidetachment, serial bus sabotage, antijamming - Environmental class II (indoor general) - ABS casing - White</p>								
		Item no. F102EVMOBWL								

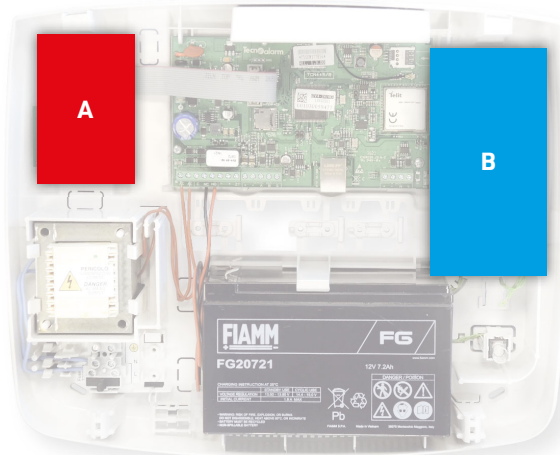
EV ESP 4IN										
 		Mounting position		A	B					
		<p>Expansion module with 4 parallel inputs for connecting conventional, RDV® and Zone Bus detectors from Tecnoalarm - Connection with flat cable - Mounting inside the control panel casing</p>								
		Item no. F127EVESP4IN								

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EV 4-24 4G - Accessories

	SD CARD 4GB		ANTENNA EXTENSION
	<p>4 GB micro SD memory card - Storage of 200 sequences of 6 high-resolution photos for each Video Verification detector N.B. Tecnoalarm does not guarantee the correct functioning with other memory cards.</p>		<p>Multi band GSM antenna extension for EV 4-24 4G - Mounting base included - 3m connection cable</p>
Item no. F127EVCARD4GB		Item no. C126PROLANT3MEV	

MOUNTING POSITIONS



EV 4-24 4G

Internal expansions

evolution

MODELS								
Model	Item no.							
EV 4-24 4G	F101EV4244G-UK			✓	✓	Optional	1.9A	✓
EV 4-24 4G EN	F101EV4244GE-UK	Security grade 2		✓	✓	Optional	1.9A	✓

COMMUNICATION DEVICES									
Format	Device	TCS	DDNS	E-MAIL	APP	RDV®	Software	CMS	Supervisor
4G LTE	On board	✓			✓	✓	✓	✓	
IP	On board	✓	✓	✓	✓		✓	✓	



EV 10-50



Hybrid control panel Expandable from 10 to 50 hard-wired/wireless zones



EV 10-50

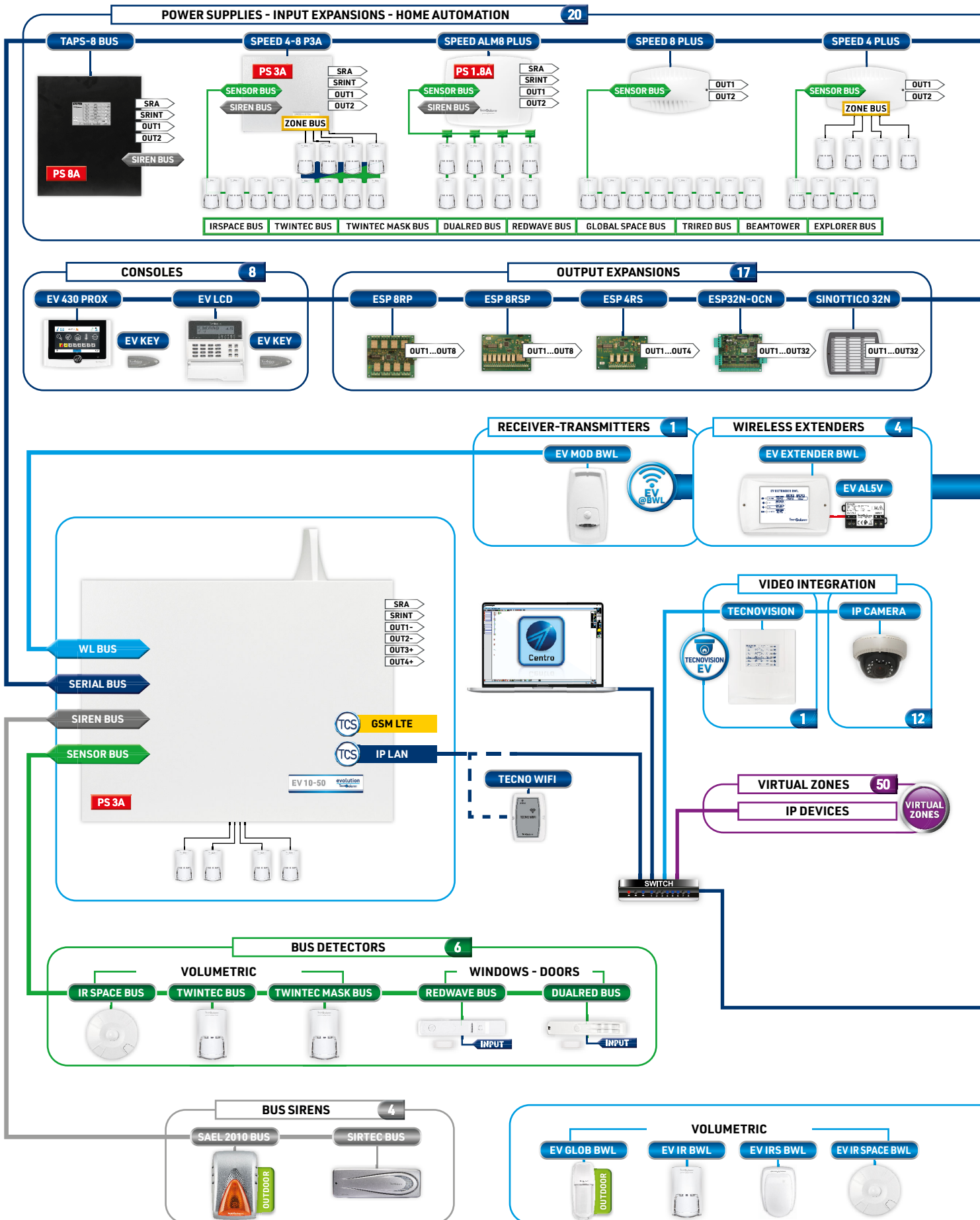
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ZONES	DEVICES / SOFTWARE PLUG-INS														
	EV10-50	EV MOD BWL	TECNO VISION	IP ZONES	TECNO OUT	EV DOMO	SPEED 8 STD	SPEED 4	SPEED 4-140C	SPEED 8	SPEED ALM8 PL	SPEED 4 PLUS	SPEED 8 PLUS	SPEED ALM8 PLUS	SPEED 4-8 P3A
WIRELESS EV@BWL	-	50		-	-	-	-	-	-	-	-	-	-	-	-
VIRTUAL (A)	-	-	12 IP CAMERA	50 IP DEVICE	50 IP DEVICE	-	-	-	-	-	-	-	-	-	-
CONVENTIONAL (B)	4	-	-	-	-	2	8	4	4	8	8	4	-	-	4(C)
ZONE BUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SENSOR BUS	6	-	-	-	-	-	-	-	-	-	-	4	8	8	8
HOME AUTOMATION	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-

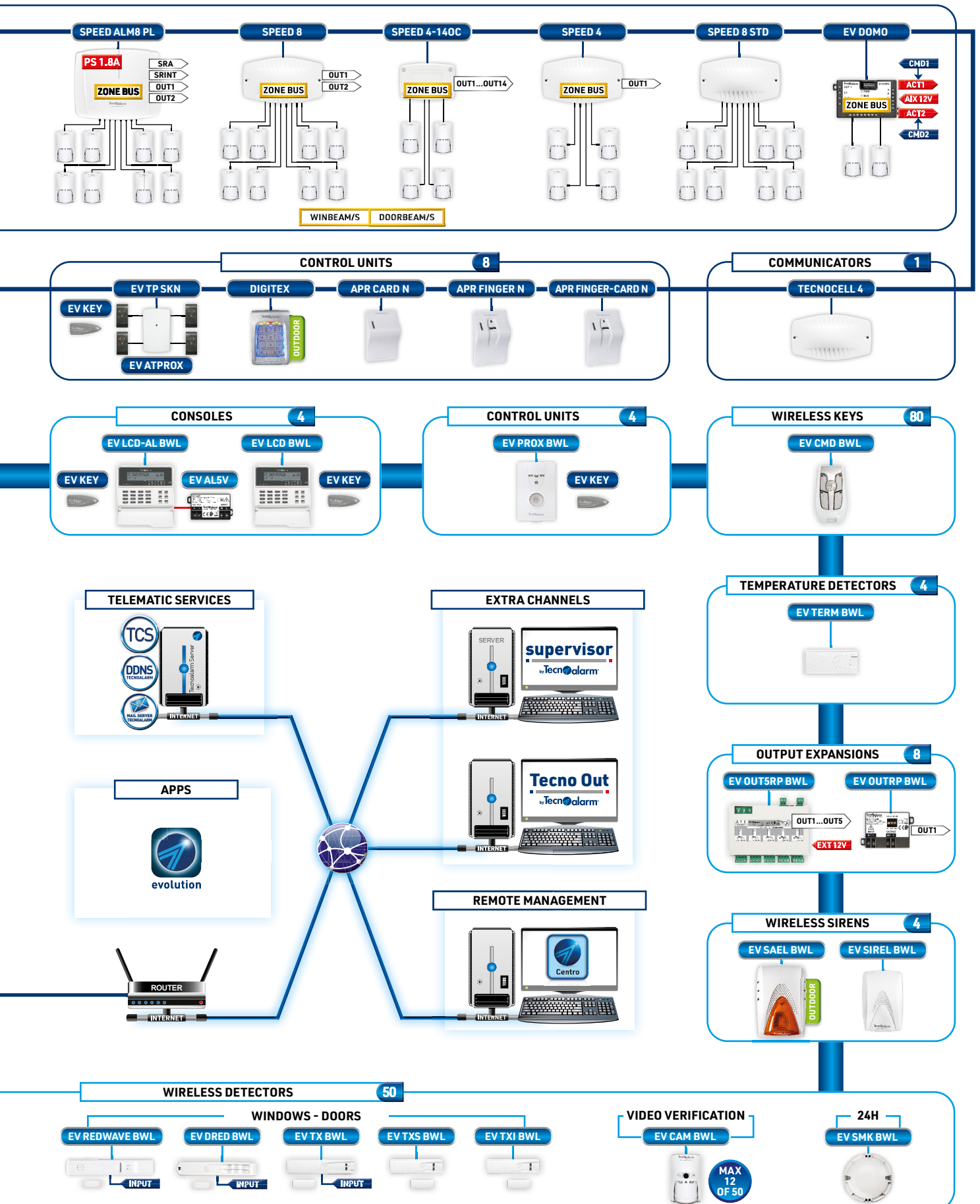
A - The virtual zones are only available with the IP ZONES and TECNO OUT software plug-ins and with the TECNOVISION module.
 B - The following contact types can be programmed: NC (normally closed), NO (normally open), BIL (end-of-line resistor), B24 (double end-of-line resistor).
 The following filters can be programmed: time, pulse count or vibration.
 C - The 4 conventional inputs are only available as an alternative to 4 Sensor Bus inputs (max. 8 inputs managed).

Technical Evaluation index	Serial ports				Communication devices			Telematic services and apps		
	SERIAL BUS	SENSOR BUS	SIREN BUS	WL BUS	4G LTE	IP	4G GSM-EXT	TCS	DDNS TECHNOLOGY	evolution
EV 10-50 EV 10-50 EN					SP3...5 DP1...DP4	SP3...5 DP1...DP4	SP2			
	A+				A			A		

A+: maximum equipment - A: excellent - B: good - C: satisfactory - SP: single path - DP: dual path
 The SP and DP values indicate the performance level achieved by either a single communication device or a combination of two, according to the EN 50131 and EN 50136 standards.



System configuration



EV 10-50

evolution

EV 10-50

- 50 logic zones
- Max. 50 hard-wired zones: conventional, Zone Bus, Sensor Bus
- Max. 50 wireless zones
- 4 inputs for connecting conventional detectors
- 6 Sensor Bus inputs for connecting RSC® detectors
- 1 tamper input
- 6 programmable alarm outputs
- 8 logic sirens
- 1 power supply output for charging battery of the self-powered siren
- 1 WL Bus port for connecting the EV MOD BWL module
- 1 Serial Bus port for connecting conventional peripherals
- 1 Sensor Bus port for connecting RSC® detectors
- 1 Siren Bus port for connecting RSC® sirens
- On-board IP and 4G LTE communication devices
- Optional GSM-EXT communication device TECNOCELL 4
- Optional Wi-Fi module TECNO WIFI
- 12 channels for event notification
- 2 telephone numbers/IP addresses per channel
- Independent passphrase for each channel
- 50 protocols for transmission in the formats: Speech, SMS, Ring, Data, E-mail and TCS
- Security: AES 128 bits and 256 bits data encryption
- 4 Server TCP/IP channels with access controlled by passphrase and white list
- 12 Client TCP/IP channels with customized encryption key
- 2 extra channels
- Test call with TCP/IP
- GSM network cell scanner function
- Jammer detection function
- Management of the telematic services TCS, DDNS Tecnoalarm, SNTP and Mail Server Tecnoalarm
- Voice synthesis
- Customizable text-to-speech vocabulary
- 8 programs with individual time settings
- Management of multiuser systems with common zones
- Programmable coincidence function
- Management of 10 home automation modules
- Management of biometric finger print and RFID card readers
- 122 access codes
- 100 transponders/RFID cards
- 80 wireless keys
- 36 remote controls
- 8 timers
- 8 access periods
- 8 cyclic timers
- Recallable information message
- 3 customizable memos with programmable deactivation priority
- Customizable quadrennial or perpetual calendar
- Automatic Daylight Saving/Local Sidereal Time change
- 4-zones thermostat with weekly schedule
- Digital control of radio range and interferences
- Event buffer with 64,512 events capacity
- Bay for 12V/12Ah battery
- Battery test with automatic disconnection in case of failure
- On-board 3A switching power supply

EV 10-50

evolution

Technologies and services							
Standard equipment							
Expansions							
Control modes							
Automation							
Advanced features							

EV 10-50 - Technical and functional specifications

Zones	Total logic zones	50	Telematic services	TCS	✓
	CPU hard-wired zones	6 Sensor Bus 4 conventional		DDNS Tecnoalarm	✓
	Total hard-wired zones	50		Mail Server Tecnoalarm	✓
	Total wireless zones	50		SNTP	✓
Outputs	CPU outputs	6	Wireless expansions	Receiver-transmitter modules	1
	Logic sirens	8		Extenders	4
System features	RS485 serial buses	WL Bus Siren Bus Serial Bus Sensor Bus		Total detectors	50
	Voice synthesis	✓		Synchronized detectors	12
	Vocabulary	TTS		Temperature detectors	4
	Image memory	Micro SD (optional)		Consoles	4
	Event buffer capacity	64,512 events		Control units	4
Programs and access management	Programs	8		Sirens	4
	Codes	122	Output expansions	8	
	Finger prints	96	Serial expansions	Input expansions	20 (max. 10 home automation)
	Transponders/RFID	100		Consoles	8
	Wireless keys	80		Control units	8
	Automation	Timers		8	Output expansions
Access periods		8		4G communicators	1
Thermostat		4-zone		Bus sirens	4
Calendar		Quadrennial or perpetual	Advanced programming	Actions	1,024
Memos		3		Timers	512
Remote controls		36		Counters	128
Test call with TCP/IP		1		Telephone index	48 numbers
Cyclic timers		8		Reserved output expansions	4
Alarm transmission equipment	Communication formats	IP 4G LTE	Apps	iPhone - Android - Huawei	Evolution
	GSM-EXT format (optional)	TECNOCELL 4	Advanced features	Supervisor	✓
	WI-FI module (optional)	TECNO WIFI		Advanced programming	Software plug-in 2
	ATE categories	SP3...SP5 DP1...DP4		Tecno Out	Software plug-in 3
	Communication protocols	50		IP zones	Software plug-in 4
	Encryption	AES 128/256 bits	Electrical specifications	Operating voltage	230V AC +/-10% 50Hz
	Passphrase	Programmable		Consumption CPU board	150mA @ 13.8V DC
	Channels	12		Power supply	3A @ 14.4V DC
	Server TCP/IP channels	4		Battery	1x 12V/12Ah
	Client TCP/IP channels	12	Physical specifications	Environmental class	II
	Extra channels	2		Casing	Metal
	Transmittable events	174		Dimensions (L x H x D)	398 x 309 x 108mm
	Telephone numbers/IP address	2 per channel (max. 24 digits)		Antenna height	90mm
	Call event queue	64		Weight (w/o battery)	4.5kg
Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-5-3 EN 50131-6 EN 50136-2	Security grade	2 (EV 10-50 EN)	
	Security grade	2 (EV 10-50 EN)	Notified body	IMQ	
	Notified body	IMQ			

Video integration

TECNOVISION



The TECNOVISION video integration module constitutes the simplest and most functional solution for integrating the EV 10-50 system with the management of IP cameras, equipped with video analysis functions and connected to the same LAN. The module can integrate up to 12 IP cameras, which are managed as virtual zones by the EV 10-50 system. The integration of cameras equipped with video analysis functions makes multiple new detection methods available, supported by new video verification tools. The detection logics combine the detection of physical zones, associated with conventional detectors, and the detection of virtual zones, assigned to the IP cameras. With the TECNOVISION module, NVR recorders and monitors are no longer necessary for local viewing, the video streams detected by the system are routed to the Cloud. The management and viewing of the IP cameras are carried out entirely by Evolution app.

Item no. F127TECNOVISION

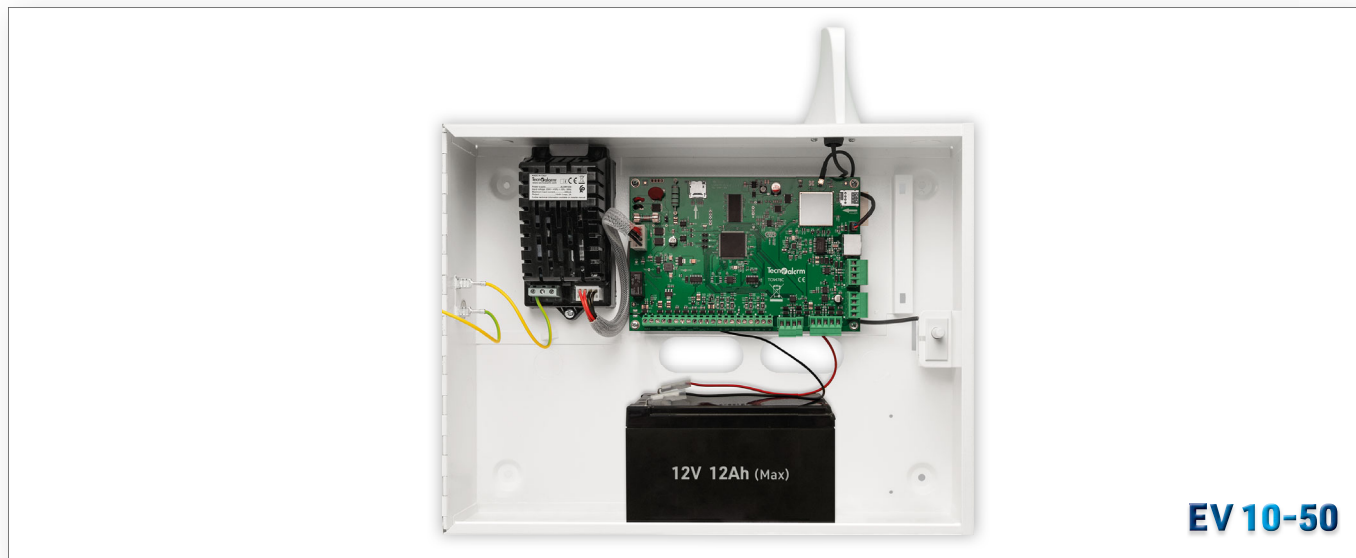
TECNOVISION - Technical and functional specifications

General features	Type	TECNOVISION
	Connection	RJ45
Network features	Communication format	IP
	Ethernet interface	802.3 Standard
	IP camera management protocol	RTSP
	Authentication	Basic / Digest
	IP address configuration	Manual/Automatic DHCP
	Communication protocol	TECNOTT
	Snapshot protocol	HTTP
	Encryption	TLS 1.2
	Passphrase	Programmable
Video integration	Video channels	Max. 12
	Live stream management	1 video stream
	Video clip recording	On alarm
Cloud archive	Video clips	Max. 1000 per IP camera zone

Automation	Clock synchronization	STNP server
Hardware	Flash memory	32 GB
	RAM	6 GB
	LAN port	RJ45
Apps	iPhone - Android - Huawei	Evolution
Electrical specifications	Rated voltage	12V DC
	Operating voltage	10V...15V DC
	Max. consumption	200mA @ 12V DC
Physical specifications	Environmental class	II
	Protection class	IP2x-IK04
	Casing	ABS
	Dimensions (L x H x D)	186 x 209 x 62.5mm
	Weight	900g

SOFTWARE PLUG-INS

ADVANCED PROGRAMMING	Software plug-in no. 2 for advanced programming management N.B. Function subject to license. Indicate serial number of control panel in order.		
	Item no. F127EV50/AV		
TECNO OUT	Software plug-in no. 3 for Tecno Out protocol management N.B. Function subject to Non-Disclosure Agreement. Indicate serial number of control panel in order.		
	Item no. F127EV50/TECNO		
IP ZONES	Software plug-in no. 4 for IP zone management N.B. Indicate serial number of control panel in order.		
	Item no. F127EV50/ZONEIP		



EV 10-50

EV 10-50

MODELS		EN 50131	PSTN	4G LTE	IP	WLAN	12V 3A POWER SUPPLY	STEEL BOX
Model	Item no.							
EV 10-50	F101EV10504G-UK			✓	✓	Optional	3A	✓
EV 10-50 EN	F101EV10504GEUK	Security grade 2		✓	✓	Optional	3A	✓

COMMUNICATION DEVICES		TCS	DDNS TECHNOALARM	MAIL SERVER TECHNOALARM	APP evolution	RDV	TCP/IP	CMS SERVICE	Supervisor
Format	Device	TCS	DDNS	E-MAIL	APP	RDV®	Software	CMS	Supervisor
4G LTE	On board	✓			✓	✓	✓	✓	
IP	On board	✓	✓	✓	✓		✓	✓	✓
GSM-EXT*	TECNOCELL 4							✓	

* Optional communication format

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EV 10-50 - Accessories

	ANTENNA EXTENSION 12m extension cord for connecting the antenna to the GSM module		ANTENNA EXTENSION 4m extension cord for connecting the antenna to the GSM module
	Item no. C126PROLANT12M		Item no. C126PROLANTENNA
	SD CARD 4GB 4 GB micro SD memory card - Storage of 200 sequences of 6 high-resolution photos for each Video Verification detector N.B. Tecnoalarm does not guarantee the correct functioning with other memory cards.		ANTENNA KIT Multi band GSM antenna with magnetic base and 3m extension cord for installing the antenna on metal surfaces
	Item no. F127EVCARD4GB		Item no. C126ANTENNA3GBA

Wireless receiver-transmitters

EV MOD BWL	
	Highly sensitive multi-channel UHF receiver-transmitter - 868MHz frequency band - Digital modulation - EV@BWL protocol - AES 128 bits encryption - Integrated RSC® technology: remote programming and management - Connection via WL Bus - Surface mounting at max. 50m distance - Anti-tamper protection: anti-opening/antidetachment, serial bus sabotage, antijamming - Environmental class II (indoor general) - ABS casing - White
Item no. F102EVMODBWL	

EV 10-50

EV MOD BWL - Technical and functional specifications

General features	Type	EV MOD BWL	Electrical specifications	Operating voltage	10V...14.5V DC
	Connection	WL Bus RS485		Max. consumption	170mA @ 13.8V DC
RF characteristics	Communication protocol	EV@BWL	Physical specifications	Environmental class	II
	Encryption	AES 128bits		Protection class	IP3x-IK04
	Receiver-transmitter	Multi-channel UHF		Casing	ABS
	Frequency band	868MHz		Dimensions (L x H x D)	73 x 137 x 39mm
	Modulation	FSK		Weight	119g
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-5-3
	Serial bus sabotage	✓		Security grade	2
	Antijamming	✓		Notified body	IMQ
	Supervision	✓			

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Wireless extenders

<h3>EV EXTENDER BWL</h3>								
	<p>Wireless extender for the Evolution systems - Automatic network configuration through EV MOD BWL - Extends the range of the system so as to reach devices outside the normal range of the receiver-transmitter and amplifies the signal so as to minimize the attenuation through the environment, walls or slabs - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision, antijamming - External 5V power supply and rechargeable NiMH batteries included - Surface mounting - Environmental class II (indoor general) - ABS casing - White N.B. Compatible with the Evolution devices with firmware version 2.0 or higher. Does not support the data channel transmission of the video verification detectors.</p>							
<p>Item no. F102EVEXTBWL</p>								

EV 10-50

EV EXTENDER BWL - Technical and functional specifications

General features	Type Data channel	EV EXTENDER BWL -	Electrical specifications	Operating voltage Average consumption Max. consumption Battery	4.5V...6V DC 60mA @ 5V DC 350mA @ 5V DC 2x NiMH - 1.2V
RF characteristics	Communication protocol Encryption Receiver-transmitter Frequency band Modulation	EV@BWL AES 128bits UHF 868MHz FSK	Physical specifications	Environmental class Protection class Casing Dimensions (L x H x D) Weight	II IP3x ABS 165 x 110 x 41mm 336g
Networking	Configuration Connexion Routing	Automatic End-to-end Dynamic	Conformity	Standards Security grade Notified body	EN 50131-1 EN 50131-3 EN 50131-5-3 2 IMQ
Anti-tamper protection	Anti-opening/antidetachment Antijamming Supervision	Micro-switch ✓ ✓			

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Consoles and control units

Wireless extenders

EV 430 PROX								
	<p>Console with TFT 4.3" capacitive touch screen and integrated RFID reader - RS485 connection - Signal LED and acoustic signaling device - Interactive and intuitive graphic interface with icons contextual to system status - Help function - Free program association - Graphic themes programmable by the user - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, code error, serial bus sabotage - Surface mounting - Environmental class II (indoor general) - Ultra-thin ASA casing</p>							
Item no. F127EV430PROX (white)								
Item no. F127EV430PROXG (gray)								

EV 430 PROX - Technical and functional specifications

General features	Type	EV 430 PROX
	RFID reader	✓
	Connection	Serial Bus RS485
User interface	Display	TFT 4.3" colors
	Resolution	480 x 272px
	Touch screen	Capacitive
	Infographics	Icons contextual to system status
	Voice synthesis	✓
	Speaker	✓
	Buzzer signals	✓
	Programs managed	8
	Remote controls managed	36
Thermostat management	✓	

Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
Electrical specifications	Operating voltage	10.5V...14V DC
	Stand-by consumption	50mA @ 13.8V DC
	Max. consumption	130mA @ 13.8V DC
Physical specifications	Environmental class	II
	Protection class	IP4x-IPK04
	Casing	ASA
	Dimensions (L x H x D)	154 x 104.6 x 23mm
	Weight	230g
Conformity	Standards	EN 50131-1 EN 50131-3
	Security grade	2
	Notified body	IMQ

EV 430 PROX - Accessories

	<p>EV KEY</p> <p>High security transponder for the Evolution series RFID readers - Unique non-duplicable nor reprogrammable code - ABS casing - Design by Pininfarina - Gray</p>
Item no. F103EVKEY	

EV LCD	
	<p>Console with graphic LCD, integrated RFID reader and voice synthesis function (connection of S wire from the control panel required) - RS485 connection - Extended keypad with direct commands - Signal LED and acoustic signaling device - Interactive and intuitive graphic interface with icons contextual to system status - Management of 6 freely associable programs - Programmable backlight with light sensor - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, code error, serial bus sabotage - Surface mounting - Environmental class II (indoor general) - ASA casing - Design by Pininfarina - White</p>
Item no. F127EVLCD	

EV LCD - Technical and functional specifications

General features	Type	EV LCD	Electrical specifications	Operating voltage	10.5V...14V DC
	RFID reader	✓		Stand-by consumption	30mA @ 13.8V DC
	Connection	Serial Bus RS485		Max. consumption	40mA @ 13.8V DC
User interface	Display	Graphic LCD	Physical specifications	Environmental class	II
	Infographics	Icons contextual to system status		Protection class	IP3x-IPK04
	Voice synthesis	✓		Casing	ASA
	Speaker	Multifunction		Dimensions (L x H x D)	150 x 126 x 31mm
	Buzzer signals	✓		Weight	354g
	Programs managed	8	Conformity	Standards	EN 50131-1 EN 50131-3
	Remote controls managed	36		Security grade	2
Thermostat management	✓	Notified body		IMQ	
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch			

EV LCD - Accessories

	EV KEY
	<p>High security transponder for the Evolution series RFID readers - Unique non-duplicable nor reprogrammable code - ABS casing - Design by Pininfarina - Gray</p>
Item no. F103EVKEY	

EV LCD-AL BWL									
	<p>2-way wireless console with graphic LCD and integrated RFID reader - Extended keypad with direct commands - Signal LED and acoustic signaling device - Interactive and intuitive graphic interface with icons contextual to system status - Management of 6 freely associable programs - Programmable backlight with light sensor - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision, code error - Lithium battery included - External 5V power supply required - Surface mounting - Environmental class II (indoor general) - ASA casing - Design by Pininfarina - White</p>								
	Item no. F102EVLCDALBWL								

EV LCD-AL BWL - Technical and functional specifications

General features	Type	EV LCD-AL BWL	Electrical specifications	Battery	2x SOCl2 - 3.6V
	RFID reader	✓		Battery life	> 1 year
User interface	Display	Graphic LCD	Physical specifications	External power supply	5V DC
	Infographics	Icons contextual to system status		Environmental class	II
	Buzzer	✓		Protection class	IP3x-IK04
	Buzzer signals	✓		Casing	ASA
	Programs managed	8		Dimensions (L x H x D)	150 x 126 x 31mm
	Remote controls managed	36		Weight	400g
	Thermostat management	✓	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-5-3
RF characteristics	Communication protocol	EV@BWL		Security grade	2
	Receiver-transmitter	UHF		Notified body	IMQ
	Frequency band	868MHz			
	Modulation	FSK			
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch			
	Supervision	✓			

EV LCD-AL BWL - Accessories

	EV KEY		EV AL5V
	<p>High security transponder for the Evolution series RFID readers - Unique non-duplicable nor reprogrammable code - ABS casing - Design by Pininfarina - Gray</p>		<p>External switching power supply for EV LCD-AL BWL - 0.5A @ 5V DC stabilized output - Installation inside junction or switch boxes - Polycarbonate V0 casing - Black - Dimensions (L x H x D) 66 x 35 x 26mm</p>
Item no. F103EVKEY		Item no. F102EVAL5V	

EV LCD BWL	
	<p>2-way wireless console with graphic LCD and integrated RFID reader - Extended keypad with direct commands - Signal LED - Interactive and intuitive graphic interface with icons contextual to system status - Management of 6 freely associable programs - Programmable backlight with light sensor - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision, code error - Lithium battery included - Surface mounting - Environmental class II (indoor general) - ASA casing - Design by Pininfarina - White</p>
Item no. F102EVLCD BWL	

Consoles and control units

EV LCD BWL - Technical and functional specifications

General features	Type	EV LCD BWL	Electrical specifications	Battery	2x SOIC12 - 3.6V
	RFID reader	✓		Battery life	> 3 years
User interface	Display	Graphic LCD	Physical specifications	Environmental class	II
	Infographics	Icons contextual to system status		Protection class	IP3x-IK04
	Buzzer	✓		Casing	ASA
	Buzzer signals	No		Dimensions (L x H x D)	150 x 126 x 31mm
	Programs managed	8		Weight	386g
	Remote controls managed	36	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-5-3
	Thermostat management	✓		Security grade	2
		Notified body		IMQ	
RF characteristics	Communication protocol	EV@BWL			
	Transmitter-receiver	UHF			
	Frequency band	868MHz			
	Modulation	FSK			
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch			
	Supervision	✓			

evolution

EV LCD BWL - Accessories

	EV KEY
	High security transponder for the Evolution series RFID readers - Unique non-duplicable nor reprogrammable code - ABS casing - Design by Pininfarina - Gray
Item no. F103EVKEY	

EV PROX BWL	
	2-way wireless RFID reader - Illuminated switch-on/activation button, 4 Signal LED and acoustic signaling device - Management of 3 freely associable programs - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision, key error - Lithium battery included - Surface mounting - Environmental class II (indoor general) - Ultra-thin ASA casing - White
Item no. F102EVPROXBWL	

EV PROX BWL - Technical and functional specifications

General features	Type	EV PROX BWL	Electrical specifications	Battery	SOCl2 - 3.6V
User interface	Signal LED	4	Physical specifications	Battery life	> 3 years
	Switch-on/activation button	Illuminated		Environmental class	II
	Buzzer	✓		Protection class	IP3x
	Programs managed	3		Casing	ASA
RF characteristics	Communication protocol	EV@BWL		Dimensions (L x H x D)	68 x 110 x 25mm
	Receiver-transmitter	UHF	Weight	144g	
	Frequency band	868MHz	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-5-3
	Modulation	FSK		Security grade	2
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch		Notified body	IMQ
	Supervision	✓			

EV CMD BWL	
	2-way wireless key - Function programmable: program and/or remote-control management - 3 command keys and 1 query key - Programmable attributes - Integrated RSC® technology: remote programming and management - Lithium battery included - ASA casing - White
Item no. F102EVCMDBWL	

EV CMD BWL - Technical and functional specifications

General features	Type	EV CMD BWL	Electrical specifications	Battery	CR2450 - 3V
User interface	Command keys	3	Physical specifications	Battery life	> 1 year
	Query key	1		Casing	ASA
	Signaling LED	4		Dimensions (L x H x D)	48 x 80 x 15mm
Programmable functions	Program management	✓		Weight	73g
	Remote control management	✓		Conformity	Standard
	Operational attributes	✓	Security grade		2
RF characteristics	Communication protocol	EV@BWL	Notified body		IMQ
	Receiver-transmitter	UHF			
	Frequency band	868MHz			
	Modulation	FSK			

RFID reader interfaces

EV TP SKN			
 	Interface for connecting up to 4 RFID readers of the type EV ATPROX - RS485 connection - ABS casing - Surface mounting - Dimensions (L x H x D) 63 x 101 x 25mm - White		
Item no. F127EVTPSKN			

RFID readers








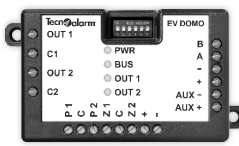
EV ATPROX	 Approved for certified systems			
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RFID reader for indoor use with 4 LED and a buzzer - Management of 3 programs - Mounting inside the flush boxes of the main electric switch series - To be used in combination with the EV TP SKN RFID reader interface

EV ATPROX/I	 RFID reader module for Vimar Idea* switches - ABS casing - Black Item no. F103EVATPX/I	EV ATPROX/A	 RFID reader module for BTicino Axolute* switches - ABS casing - White Item no. F103EVATPX/A
EV ATPROX/L	 RFID reader module for BTicino Living* switches - ABS casing - Black Item no. F103EVATPX/L	EV ATPROX/M - EV ATPROX/MN	
		 RFID reader module for BTicino Magic* switches - ABS casing Item no. F103EVATPX/M (white) Item no. F103EVATPX/MN (black)	
EV ATPROX/LINTB - EV ATPROX/LINT		EV ATPROX/LNOW - EV ATPROX/LNOB	
 RFID reader module for BTicino Living International* switches - ABS casing Item no. F103EVATPX/LINB (white) Item no. F103EVATPX/LINT (black)	 RFID reader module for BTicino Living Now* switches - ABS casing Item no. F103EVATPX/LNOB (white) Item no. F103EVATPX/LNOW (black)		
EV ATPROX/KEYSTONE			
 RFID reader module for Keystone adapter - ABS casing Item no. F103EVATPX/KB (white) Item no. F103EVATPX/KN (black)			

* The product and brand names are owned by BTicino and Vimar.

Home automation

EV DOMO	      
	<p>Automation module with 2 inputs for connecting conventional, RDV® and Zone Bus detectors from Tecnoalarm - Automation section composed of 2 control inputs and 2 relay outputs (4A @ 250V AC) - Programmable operating mode: automatic switching of lights, triggering of motorized roller shutters and venetian blinds, automatic opening of gates and doors, control of general electrical equipment - Auxiliary power supply input for backup of automation functions - RS485 connection - ABS casing - Dimensions (L x H x D) 105 x 55 x 26mm</p>
Item no. F127EVDOMO	

EV DOMO - Technical and functional specifications

General features	Type	EV DOMO	Input expansion features	Total logic zones	2
	Connection	Serial Bus RS485		Managed detector types	Conventional, RDV® and Zone Bus from Tecnoalarm
Automation features	Automation zones	2	Electrical specifications	Rated voltage	12V DC
	Operating modes	Lights Roller shutters Venetian blinds Gates and doors		Operating voltage	10.5V...15V DC
	Control inputs	2		Stand-by consumption	30mA @ 12V DC
	Programmable switch types	Manual - Smart NC - NO		Max. consumption	80mA @ 12V DC
	Interlocking of control inputs	Programmable	Physical specifications	Environmental class	II
	Relay outputs	2 programmable (max. 4A @ 250V AC)		Protection class	IP2x-IK04
	Auxiliary power supply input	Backup of automation functions		Casing	PC V0
			Dimensions (L x H x D)	105 x 55 x 26mm	
			Weight	109g	



Detectors for indoor use

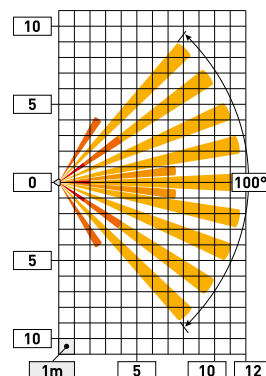
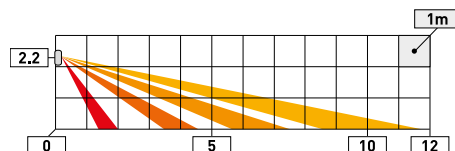
EV IRS BWL	
	<p>2-way wireless passive infrared detector - Volumetric protection: 22 infrared beams, 4 levels, 100° coverage, 10m maximum range - Programmable pulse count - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Surface mounting - Environmental class II (indoor general) - ASA casing - Design by Pininfarina - White</p>
Item no. F102EVIRSBWL	

EV IRS BWL - Technical and functional specifications

General features	Type	EV IRS BWL
Detection features	Infrared detector	Dual PIR element
	Infrared beams	22
	Levels (infrared beams)	4
	Coverage	100°, 10m range
	Pulse count	Programmable
RF characteristics	Communication protocol	EV@BWL
	Transmitter-receiver	UHF
	Frequency band	868MHz
	Modulation	FSK
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Supervision	✓

Electrical specifications	Battery	CR2 - 3V
	Battery life	> 2 years
Physical specifications	Environmental class	II
	Protection class	IP4x-IK04
	Casing	ASA
	Dimensions (L x H x D)	63 x 94 x 42mm
	Weight	84g
Conformity	Standards	EN 50131-1 EN 50131-2-2 EN 50131-5-3
	Security grade	2
	Notified body	IMQ

Coverage diagrams



EV IR BWL



2-way wireless passive infrared detector -
Volumetric protection: 29 infrared beams, 4 levels, 108° coverage, 14m maximum range -
Also available with long range, curtain and pet-immune wide-angle lens -
Programmable pulse count -
Integrated RSC® technology: remote programming and management -
Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included -
Surface mounting - Environmental class II (indoor general) - ABS casing -
Design by Pininfarina - White

EV IR BWL/V Item no. F102EVIRBWL/V (wide angle)

EV IR BWL/C Item no. F102EVIRBWL/C (long range)

EV IR BWL/T Item no. F102EVIRBWL/T (curtain)

EV IR BWL/PET Item no. F102EVIRBWL/PET (pet-immunity)

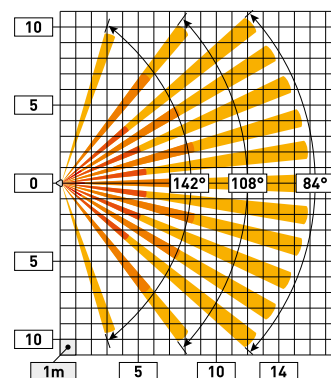
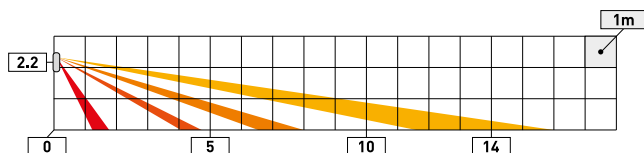
Detectors for indoor use

EV IR BWL - Technical and functional specifications

General features	Type	EV IR BWL
Detection features	Infrared detector	Dual PIR element
	Infrared beams	29
	Levels (infrared beams)	4
	Coverage	108°, 14m range
	Pulse count	Programmable
RF characteristics	Communication protocol	EV@BWL
	Receiver-transmitter	UHF
	Frequency band	868MHz
	Modulation	FSK
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Supervision	✓

Electrical specifications	Battery	SOCL2 - 3.6V
	Battery life	> 4 years
Physical specifications	Environmental class	II
	Protection class	IP4x-IK04
	Casing	ABS
	Dimensions (L x H x D)	68 x 118 x 51mm
	Weight	141g
Conformity	Standards	EN 50131-1 EN 50131-2-2 EN 50131-5-3
	Security grade	2
	Notified body	IMQ

Coverage diagrams
(EV IR BWL/V)





EV IRSPACE BWL	
	<p>2-way wireless passive infrared detector - Volumetric protection: 28 infrared beams, 4 circles, 360° coverage, 5m maximum range - Programmable pulse count - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Surface ceiling mount - Environmental class II (indoor general) - ASA casing - White</p>
Item no. F102EVIRSPACBWL	

Detectors for indoor use

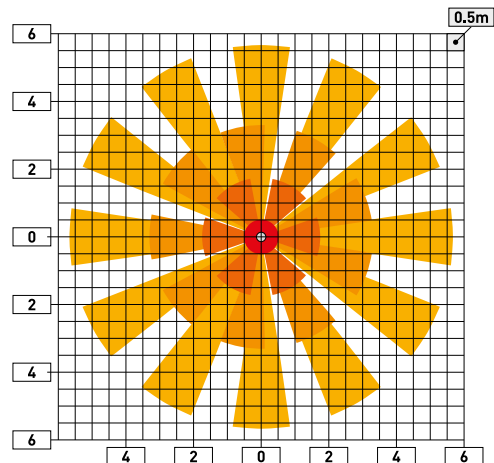
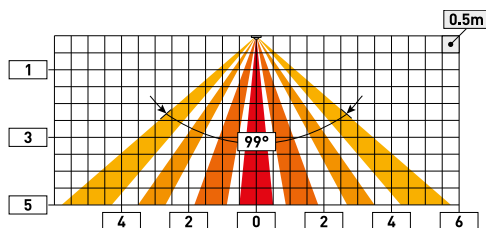
EV IRSPACE BWL - Technical and functional specifications

General features	Type	EV IRSPACE BWL
Detection features	Infrared detector	Dual PIR element
	Infrared beams	28
	Levels (infrared beams)	4
	Coverage	H 360°, V 99°, 5m range
	Pulse count	Programmable
RF characteristics	Communication protocol	EV@BWL
	Receiver-transmitter	UHF
	Frequency band	868MHz
	Modulation	FSK
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Supervision	✓

Electrical specifications	Lithium battery	SOCL2 - 3.6V
	Battery life	> 4 years
Physical specifications	Environmental class	II
	Protection class	IP4x-IK04
	Casing	ASA
	Dimensions (Ø x H)	104 x 40mm
	Weight	175g
Conformity	Standards	EN 50131-1 EN 50131-2-2 EN 50131-5-3
	Security grade	2
	Notified body	IMQ

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Coverage diagrams



EV CAM BWL



2-way wireless passive infrared detector with integrated camera - Volumetric protection: 29 infrared beams, 4 levels, 108° coverage, 14m maximum range - Programmable pulse count - Camera: 120° coverage, 10m depth of field, trigger subject to infrared detection - Photo storage on control panel (micro SD) - Photo viewing and remote trigger through Evolution app - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Surface mounting - Environmental class II (indoor general) - ABS casing - Design by Pininfarina - White - EN 50131 certification authorizes the use of the swivel mounting bracket

EV CAM BWL Item no. F102EVCAMBWL (wide angle)

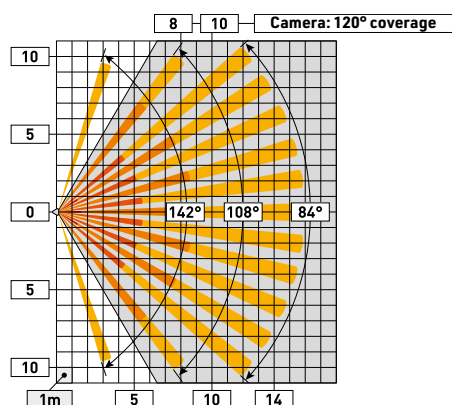
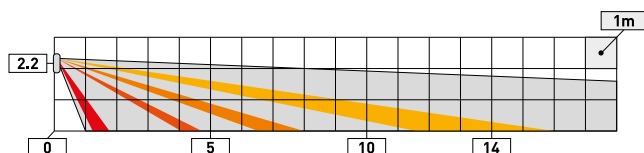
EV CAM BWL/PET Item no. F102EVCAMBWLPET (pet-immunity)

EV CAM BWL - Technical and functional specifications

General features	Type	EV CAM BWL
Detection features	Infrared detector	Dual PIR element
	Infrared beams	29
	Levels (infrared beams)	4
	Coverage	108°, 14m range
	Pulse count	Programmable
Camera features	Coverage	120°, 10m depth of field
	Illuminator	White light
	Resolution	Programmable
	Photo per event	1 to 6
	Events per session	1 to 10
RF characteristics	Communication protocol	EV@BWL
	Receiver-transmitter	UHF
	Frequency band	868MHz
	Modulation	FSK

Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Supervision	✓
Electrical specifications	Battery	2x CR17335 - 3V
	Battery life	> 2 years
Physical specifications	Environmental class	II
	Protection class	IP4x-IK04
	Casing	ABS
	Dimensions (L x H x D)	68 x 119 x 63mm
	Weight	181g
Conformity	Standards	EN 50131-1 EN 50131-2-2 EN 50131-5-3
	Security grade	2
	Notified body	IMQ

Coverage diagrams



EV CAM BWL - Accessories



SNODO 2000

Swivel mounting bracket with H±45°, V-15°V orientation - Surface mounting - Anti-tamper protection: anti-opening/antidetachment

Item no. F102SNODO2000

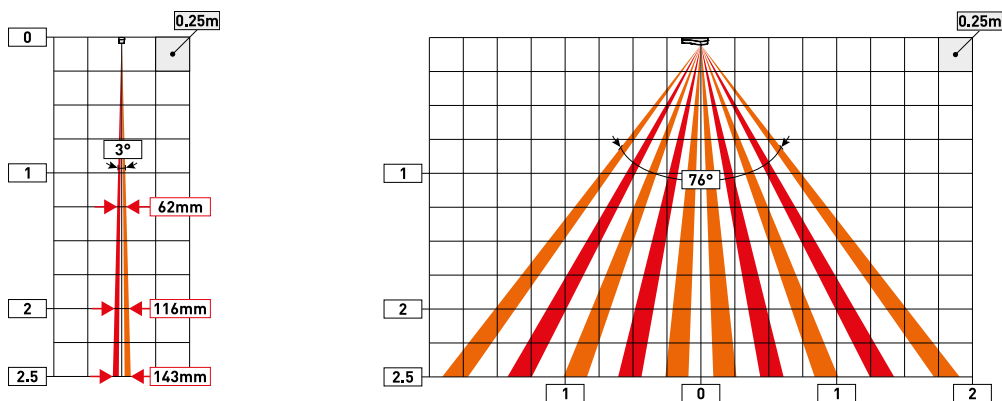


EV DRED BWL	
 	<p>2-way wireless detector for protection of openings, windows and doors - 2 independent detection units (dual ID): dual PIR element (ID1), internal contact and/or input for external device (ID2) - Volumetric protection: 10 infrared beams, 2 levels, coverage 76° on the horizontal, 3° on the vertical plane, 2.5m maximum range - Programmable pulse count - AND detection logic with dynamic algorithm - Automatic temperature compensation - External device: magnetic contact, rope contact or vibration detector - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Surface mounting - Environmental class II (indoor general) - ASA casing</p>
EV DRED BWL	Item no. F102EVDREDBWL (white)
EV DRED BWL/M	Item no. F102EVDREDBWLM (brown)

EV DRED BWL - Technical and functional specifications

General features	Type	EV DRED BWL	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Zones occupied	2 (ID1 + ID2)		Supervision	
Detection features ID1 - IR	Infrared detector	2 dual PIR elements	Electrical specifications	Battery	SOCl2 - 3.6V
	Infrared beams	10		Battery life	> 3 years
	Levels (infrared beams)	2	Physical specifications	Environmental class	II
	Coverage	H 76°, V3°, 2.5m range		Protection class	IP4x-IK04
	Detection logic	Dynamic AND		Casing	ASA
	Settings	Pulse count Delay Interval		Dimensions (L x H x D)	168 x 46 x 30mm
	Temperature compensation	Automatic		Weight	160g
Detection features ID2 Contact	Contact	Reed	Conformity	Standards	EN 50131-1 EN 50131-2-2 EN 50131-5-3
	Input for external device	Magnetic contact Rope contact Vibration detector		Security grade	2
	Filter	Programmable		Notified body	IMQ
RF characteristics	Communication protocol	EV@BWL			
	Receiver-transmitter	UHF			
	Frequency band	868MHz			
	Modulation	FSK			

Coverage diagrams

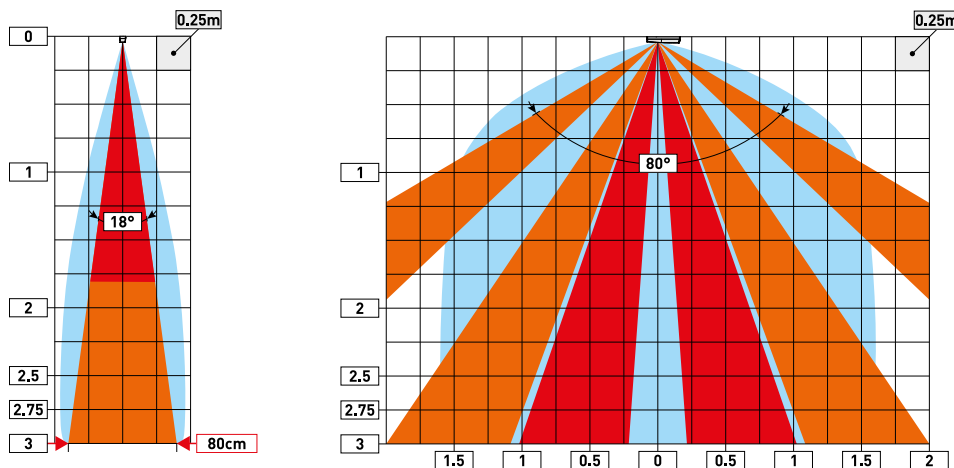


EV REDWAVE BWL									
 	<p>2-way wireless detector for protection of openings, windows and doors - 2 independent detection units (dual ID): dual PIR + microwave element (ID1), internal contact and/or input for external device (ID2) - Volumetric protection: 6 infrared beams, 1 level, coverage 80° on the horizontal, 18° on the vertical plane, 3m maximum range - Programmable pulse count - AND detection logic - Automatic temperature compensation - External device: magnetic contact, rope contact or vibration detector - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Surface mounting - Environmental class II (indoor general) - ASA casing</p>								
EV REDWAVE BWL		Item no. F102EVREDWABWL (white)							
EV REDWAVE BWL/M		Item no. F102EVREDWABWLM (brown)							

EV REDWAVE BWL - Technical and functional specifications

General features	Type	EV REDWAVE BWL	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Zones occupied	2 (ID1 + ID2)		Supervision	
Detection features ID1 IR+MW	Infrared detector	Dual PIR element	Electrical specifications	Battery	SOCL2 - 3.6V
	Infrared beams	6		Battery life	> 3.5 years
	Levels (infrared beams)	1	Physical specifications	Environmental class	II
	Microwave frequency	24GHz		Protection class	IP4x-IPK04
	Coverage	H 80°, V 18°, 3m range		Casing	ASA
	Detection logic	Dynamic AND		Dimensions (L x H x D)	180 x 33 x 32mm
	Settings	Pulse count Delay Sensitivity		Weight	144g
Temperature compensation	Automatic	Conformity	Standards	EN 50131-1 EN 50131-2-4 EN 50131-5-3	
Detection features ID2 Contact	Contact		Reed	Security grade	2
	Input for external device		Magnetic contact Rope contact Vibration detector	Notified body	IMQ
	Filter	Programmable			
RF characteristics	Communication protocol	EV@BWL			
	Receiver-transmitter	UHF			
	Frequency band	868MHz			
	Modulation	FSK			

Coverage diagrams














EV TXI BWL	
	<p>2-way wireless detector for protection of passages, windows and doors - 2 independent detection units (dual ID): vibration detector (ID1), dual reed contact (ID2) - Vibration detector can be configured for detection of vibration, tilt and fall - Dual reed contact permits the installation of the magnet on either side of the casing - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Surface mounting - Environmental class II (indoor general) - ABS/ASA casing</p>
	<p>EV TXI BWL Item no. F102EVTXIBWL (white)</p> <p>EV TXI BWL/M Item no. F102EVTXIBWLM (brown)</p>

EV TXI BWL - Technical and functional specifications

General features	Type	EV TXI BWL
	Zones occupied	2 (ID1 + ID2)
Detection features ID1 - Vibration detector	Events detected	Vibration, tilt and fall
	Detection of vibration	Programmable sensitivity and pulse time
	Detection of tilt	Programmable sensitivity
	Detection of fall	50cm min. height
Detection features ID2 - Contact	Contact	Reed
	Filter	Programmable
RF characteristics	Communication protocol	EV@BWL
	Receiver-transmitter	UHF
	Frequency band	868MHz
	Modulation	FSK

Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Supervision	✓
Electrical specifications	Battery	CR2 - 3V
	Battery life	> 2 years
Physical specifications	Environmental class	II
	Protection class	IP3x-IK04
	Casing	ABS/ASA
	Dimensions (L x H x D)	91 x 25 x 28mm
	Weight	80g
Conformity	Standards	EN 50131-1 EN 50131-2-6 EN 50131-5-3
	Security grade	2
	Certification	Pending

EV TX BWL	     
  	<p>2-way wireless magnetic contact for protection of openings, windows and doors - 2 independent detection units (dual ID): internal dual reed contact and/or input for external device (ID1), input for external device (ID2) - Internal dual reed contact permits the installation of the magnet on either side of the casing - External device: magnetic contact, rope contact or vibration detector - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Surface mounting - Environmental class II (indoor general) - ABS/ASA casing</p>
EV TX BWL	Item no. F102EVTXBWL (white)
EV TX BWL/M	Item no. F102EVTXBWLM (brown)

EV TX BWL - Technical and functional specifications

General features	Type	EV TX BWL	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Zones occupied	2 (ID1 + ID2)		Supervision	✓
Detection features ID1 - Reed+contact	Reed	Excludable	Electrical specifications	Battery	CR2 - 3V
	Input for external device	Magnetic contact Rope contact Vibration detector		Battery life	> 4 years
	Filter	Programmable	Physical specifications	Environmental class	II
Detection features ID2 - Contact	Input for external device	Magnetic contact Rope contact Vibration detector		Protection class	IP3x-IK04
	Filter	Programmable		Casing	ABS/ASA
RF characteristics	Communication protocol	EV@BWL		Dimensions (L x H x D)	121 x 25 x 28mm
	Receiver-transmitter	UHF	Weight	95g	
	Frequency band	868MHz	Conformity	Standards	EN 50131-1 EN 50131-2-6 EN 50131-5-3
	Modulation	FSK		Security grade	2
			Notified body	IMQ	



EV TXS BWL	
	<p>2-way wireless magnetic contact for protection of openings, windows and doors - Internal dual reed contact permits the installation of the magnet on either side of the casing - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Surface mounting - Environmental class II (indoor general) - ABS/ASA casing</p>
EV TXS BWL	Item no. F102EVTXS BWL (white)
EV TXS BWL/M	Item no. F102EVTXS BWLM (brown)

EV TXS BWL - Technical and functional specifications











General features	Type	EV TXS BWL
Detection features	Contact	Reed
RF characteristics	Communication protocol	EV@BWL
	Receiver-transmitter	UHF
	Frequency band	868MHz
	Modulation	FSK
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Supervision	✓

Electrical specifications	Lithium battery	CR2 - 3V
	Battery life	> 4 years
Physical specifications	Environmental class	II
	Protection class	IP3x-IK04
	Casing	ABS/ASA
	Dimensions (L x H x D)	91 x 25 x 28mm
	Weight	80g
Conformity	Standards	EN 50131-1 EN 50131-2-6 EN 50131-5-3
	Security grade	2
	Notified body	IMQ

EV 4-24 4G

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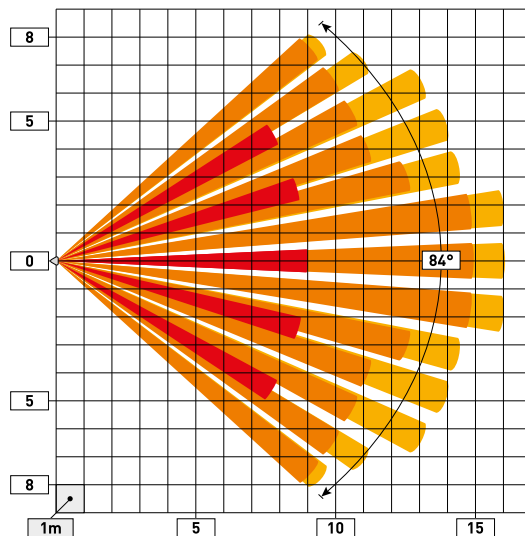
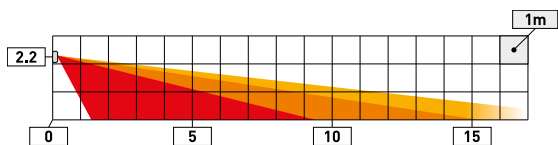
Detectors for outdoor use

EV GLOB BWL									
 	<p>2-way wireless passive infrared detector - High-density volumetric protection with multi-point technology: 43 infrared beams, 5 level, 15m maximum range - Coverage adjustable with lens shutter - AND/OR detection logic with 3 standard and 7 custom settings - Pulse count, delay and sensitivity programmable for each infrared element - Automatic temperature compensation - Coverage test with acoustic signaling device - Integrated RSC® technology: remote programming and management - Great versatility of installation thanks to a comprehensive range of accessories - Anti-tamper protection: anti-opening/antidetachment, antimasking, supervision - Lithium battery included - Surface mounting - Environmental class III (indoor and sheltered outdoor) - ASA casing - White</p>								
	Item no. F102EVGLOBBWL								


EV GLOB BWL - Technical and functional specifications

General features	Type	EV GLOB BWL	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
Detection features	Infrared detector	3 dual PIR elements		Antimasking	Programmable
	Infrared beams	43		Supervision	✓
	Levels (infrared beams)	5	Electrical specifications	Battery	2x SOCL2 - 3.6V
	Coverage	84° (adjustable), 15m range		Battery life	> 3.8 years
	Coverage adjustment	Lens shutter	Physical specifications	Environmental class	III
	Standard detection logics	3 preconfigured AND logics		Protection class	IP44-IK04
	Custom detection logics	7 programmable AND/OR logics		Casing	ASA
	Settings	Pulse count Delay Sensitivity		Dimensions (L x H x D)	76 x 192 x 83mm
	Temperature compensation	Automatic	Weight	400g	
RF characteristics	Communication protocol	EV@BWL	Conformity	Standard	EN 50131-1 EN 50131-2-2 EN 50131-5-3
	Receiver-transmitter	UHF		Security grade	2
	Frequency band	868MHz		Notified body	IMQ
	Modulation	FSK			

Coverage diagrams










EV GLOB BWL - Accessories

	<p>CORNER MOUNTING BRACKET</p> <p>Corner mounting bracket for wall mounting with 22.5° or 45° angle - ASA - White</p>
	<p>Item no. F102STAFFAGLOB</p>

	<p>RAIN COVER</p> <p>Rain cover for protection against bad weather and sunlight - ASA - White - Dimensions (L x H x D) 136 x 58 x 162mm</p>
	<p>Item no. F102GLOCALOTTA</p>

	<p>SNODO GLOBAL SPACE</p> <p>Swivel mounting bracket with H ±90°, V ±10° orientation - Surface mounting - Anti-tamper protection: antidetachment</p>
	<p>Item no. F102SNODOGLOB</p>






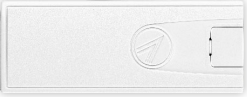
Optical smoke detectors

EV SMK BWL	     
	<p>2-way wireless optical smoke detector - Tyndall effect - Sensitivity programmable on 3 levels - Excludable signal LED - Integrated RSC® technology: remote programming and management - Anti-tamper protection: supervision - Lithium battery included - Surface ceiling mount - Environmental class II (indoor general) - ABS casing - White</p>
Item no. F102EVSMKBWL	

EV SMK BWL - Technical and functional specifications

General features	Type	EV SMK BWL	Anti-tamper protection	Supervision	✓
Detection features	Smoke detector	Tyndall effect	Electrical specifications	Battery	SOCL2 - 3.6V
	Sensitivity	Programmable		Battery life	> 2 years
	Range	5m	Physical specifications	Environmental class	II
RF characteristics	Communication protocol	EV@BWL		Protection class	IP22-1K02
	Receiver-transmitter	UHF		Casing	ABS
	Frequency band	868MHz		Dimensions (Ø x H)	100 x 55
	Modulation	FSK		Weight	239g

Temperature and humidity detectors

EV TERM BWL	    
	<p>2-way wireless temperature and humidity detector - Operating as a probe for the 2-zone thermostat of the system - The thermostat uses the temperature and humidity values captured by the detector to activate the outputs that manage the heating and air-conditioning system - Integrated RSC® technology: remote programming and management - Anti-tamper protection: supervision - Lithium battery included - Surface mounting - Environmental class II (indoor general) - ASA casing - White</p>
Item no. F102EVTERMBWL	

EV TERM BWL - Technical and functional specifications

General features	Type	EV TERM BWL	Anti-tamper protection	Supervision	✓
Detection features	Temperature detector	✓	Electrical specifications	Lithium battery	CR2032 - 3V
	Humidity detector	✓		Battery life	> 3 years
RF characteristics	Communication protocol	EV@BWL	Physical specifications	Environmental class	II
	Receiver-transmitter	UHF		Protection class	IP3x-1K02
	Frequency band	868MHz		Casing	ASA
	Modulation	FSK		Dimensions (L x H x D)	75 x 28.5 x 16.5mm
				Weight	34g

Output expansions

EV OUTRP BWL	
	<p>2-way wireless expansion module with 1 programmable relay output with potential-free contact (16A @ 250V AC) - 230V AC power supply - Integrated RSC® technology: remote programming and management - Anti-tamper protection: supervision - Lithium battery included - Surface mounting - Environmental class II (indoor general) - PC casing - Black</p> <p>Item no. F127EVOUTRPBWL</p>

EV OUTRP BWL - Technical and functional specifications












General features	Type	EV OUTRP BWL	Anti-tamper protection	Supervision	✓
Outputs	Relay 16A @ 250V AC	1	Physical specifications	Environmental class	II
RF characteristics	Communication protocol	EV@BWL		Casing	PC V0
	Receiver-transmitter	UHF		Dimensions (L x H x D)	71 x 28 x 47mm
	Frequency band	868MHz		Weight	45g
	Modulation	FSK	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-5-3
Electrical specifications	Power supply	230V AC		Security grade	2
	Max. consumption	10mA @ 230V AC		Notified body	IMQ
	Backup	No			

EV OUT5RP BWL	
	<p>2-way wireless expansion module with 5 programmable relay outputs with potential-free contact - 3 signal relays (0.3A @ 24V DC), 2 power relays (16A @ 250V AC) - 12V DC external power supply Integrated RSC® technology: remote programming and management - Anti-tamper protection: retrofittable with tamper switch, supervision - Surface mounting on the wall or on DIN bar - Environmental class II (indoor general) - ABS casing - White</p> <p>Item no. F127EVOUT5RPBWL</p>

EV OUT5RP BWL - Technical and functional specifications

General features	Type	EV OUT5RP BWL	Anti-tamper protection	Anti-opening/antidetachment	Retrofittable
Outputs	Relay 16A @ 250V AC	2	Physical specifications	Supervision	✓
	Relay 0.3A @ 24V DC	3		Environmental class	II
RF characteristics	Communication protocol	EV@BWL		Casing	ABS V0
	Receiver-transmitter	UHF		Dimensions (L x H x D)	144 x 92 x 38.5mm
	Frequency band	868MHz	Weight	275g	
	Modulation	FSK	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-5-3
Electrical specifications	Operating voltage	10.5V...15V DC		Security grade	2
	Max. consumption	155mA @ 12V DC		Notified body	IMQ
	Backup	No			

Indoor sirens

EV SIREL BWL	       
  	<p>2-way wireless piezoelectric siren for indoor use - Sound level: 98dB @ 1m - Settings: free program-siren association, volume, prealarm, alarm and technical alarm signaling - Self test: transceiver and horn - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Surface mounting - Environmental class II (indoor general) - ASA casing - Design by Pininfarina - White</p>
Item no. F102EVSIRELBWL	

EV SIREL BWL - Technical and functional specifications

General features	Type	EV SIREL BWL
Acoustic features	Sound level on main axis	98dB(A) @ 1m
	Frequency	1000Hz...1460Hz
Settings	Program association	✓
	Operating mode	Indoor Outdoor
	Volume	4 settings
	Signaling mode	Prealarm Alarm Technical Alarm
RF characteristics	Communication protocol	EV@BWL
	Receiver-transmitter	UHF
	Frequency band	868MHz
	Modulation	FSK

Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Supervision	✓
Test functions	Self test	Transceiver Horn
Electrical specifications	Battery	SOCl2 - 3.6V
	Battery life	> 4 years
Physical specifications	Environmental class	II
	Protection class	IP3x-IK06
	Casing	ASA
	Dimensions (L x H x D)	105 x 160 x 44mm
	Weight	242g
Conformity	Standard	EN 50131-1 EN 50131-4 EN 50131-5-3
	Security grade	2
	Notified body	IMQ



Outdoor sirens

EV SAEL BWL	
	<p>2-way wireless piezoelectric siren for outdoor use - Sound level: 100dB @ 1m - LED flashlight - Settings: free program-siren association, volume, prealarm, alarm, technical alarm and chime signaling - Signaling for arming/disarming of the system - Self test: transceiver, horn and flashlight - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Surface mounting - Environmental class III (indoor and sheltered outdoor) - Casing: ABS base, ASA cover - Design by Pininfarina - White</p>
Item no. F102EVSaelBWL	

Outdoor sirens

EV SAEL BWL - Technical and functional specifications

General features	Type	EV SAEL BWL	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
Acoustic features	Sound level on main axis	100dB(A) @ 1m	Test functions	Supervision	✓
	Frequency	1050Hz...2950Hz		Self test	Transceiver Horn Flashlight
Settings	Program association	✓	Electrical specifications	Battery	SOCL2 - 3.6V
	Operating mode	Indoor Outdoor		Battery life	> 3 years
	Volume	4 settings	Physical specifications	Environmental class	III
	Sound type	3 modes		Protection class	IP43-IK07
	Signaling mode	Prealarm Alarm Technical Alarm Arming/disarming Chime		Casing	ABS + ASA
	System status signal	Optical-acoustic		Dimensions (L x H x D)	169 x 252 x 80mm
	Post alarm blinking	✓	Weight	879g	
RF characteristics	Communication protocol	EV@BWL	Conformity	Standard	EN 50131-1 EN 50131-4 EN 50131-5-3
	Receiver-transmitter	UHF		Security grade	2
	Frequency band	868MHz		Notified body	IMQ
	Modulation	FSK			

evolution



Hard-wired and wireless burglar alarm systems


MADE IN ITALY





Tecnoalarm®



DESIGN BY

pininfarina

**Hard-wired and wireless systems with 10 to 440 zones
Programming, management and control via TCS**



TP10-42



Serial control panel Expandable from 10 to 42 zones Remote programming and management



TP10-42

ZONES	TP10-42	ESP4-20	SPEED 8 STD	SPEED 4	SPEED 4-140C	SPEED 8	SPEED ALM8 PL	SPEED 4 PLUS	SPEED 8 PLUS	SPEED ALM8 PLUS	SPEED 4-8 P3A
CONVENTIONAL*	4	4	8	4	4	8	8	4	-	-	4**
ZONE BUS	-		-								
SENSOR BUS	6	-	-	-	-	-	-	4	8	8	8

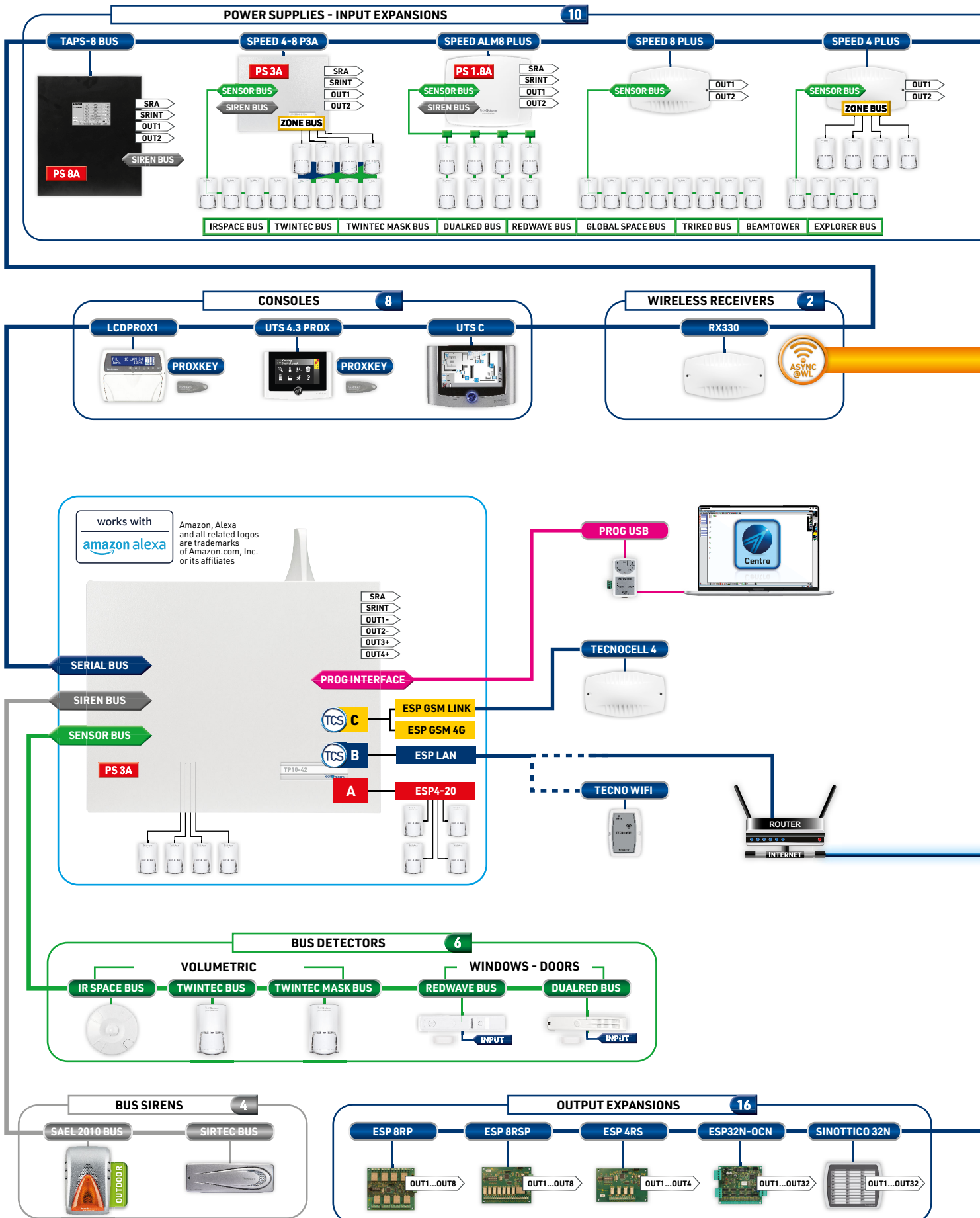
*The following contact types can be programmed: NC (normally closed), NO (normally open), BIL (end-of-line resistor), B24 (double end-of-line resistor). The following filters can be programmed: time, pulse count or vibration.

** The 4 conventional inputs are only available as an alternative to 4 Sensor Bus inputs (max. 8 inputs managed)

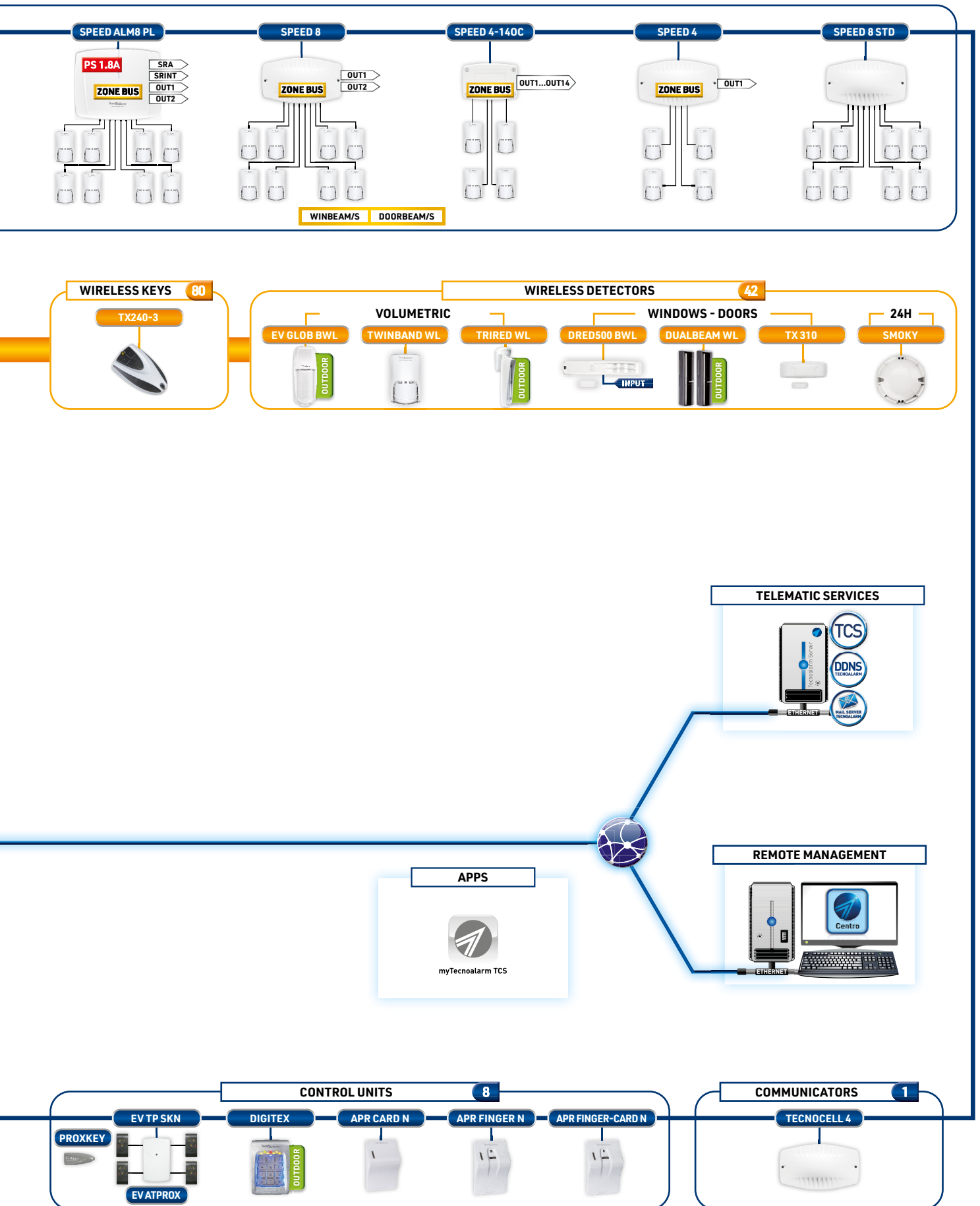
Technical evaluation index	Serial ports			Communication devices				Telematic services and apps				
	SERIAL BUS	SENSOR BUS	SIREN BUS	PSTN	4G LTE	IP	4G GSM-EXT	TCS	DDNS	myTecnAlarm TCS		
TP10-42 TP10-42 EN				-	SP2	SP3...5	SP3...5	SP2			-	
	A			A				A				

A+: maximum equipment - A: excellent - B: good - C: satisfactory - SP: single path - DP: dual path

The SP and DP values indicate the performance level achieved by either a single communication device or a combination of two, according to the EN 50131 and EN 50136 standards.



System configuration



TP10-42

- 10 to 42 logic zone
- Management of max. 42 hard-wired zones: conventional, Zone Bus and Sensor Bus
- Management of max. 42 wireless zones
- 4 zone inputs for connecting conventional detectors
- 6 Sensor Bus inputs for connecting RSC® detectors
- 1 tamper input
- 6 programmable logic outputs
- 8 logic sirens
- 1 Serial Bus port for connecting conventional peripheral devices
- 1 Sensor Bus port for connecting RSC® detectors
- 1 Siren Bus port for connecting RSC® sirens
- On-board PSTN communication device
- Optional IP and 4G LTE communication devices
- 8 channels for event notification
- 1 call back channel for connection with a monitoring station
- 2 telephone numbers/IP addresses per channel
- 203 protocols for transmission in the formats: Speech, SMS, FSK, Ring, DTMF, Data, E-mail and TCS
- Security: AES 128 and 256 bits data encryption
- Individually programmable passphrase for each channel
- Test call with TCP/IP
- GSM network cell scanner function
- Jammer detector function
- Management of the telematic services TCS, DDNS Tecnoalarm, SNTP and Mail Server Tecnoalarm
- Voice synthesis
- 8 programs with individual time settings
- Management of multiuser systems with common zones
- Programmable coincidence function
- 122 access codes
- 100 transponders/RFID cards
- 80 wireless keys
- Management of biometric finger print and RFID card readers
- 8 remote controls
- 8 timers
- 8 access periods
- 8 cyclic timers
- 3 customizable memos with programmable deactivation priority
- Customizable quadrennial or perpetual calendar
- Automatic Daylight Saving Time/Local Sidereal Time change
- Digital control of the radio range and interferences
- Event buffer with a capacity of 7,600 events
- 14.4V power supply output for battery recharge
- Bay for 12V/12Ah battery
- Battery test with automatic disconnection in case of failure
- On-board 3A linear power supply
- EN 50131 certification, security grade 2

Technologies and services						
Standard equipment						
Expansions						
Control modes						
Automation						
Advanced features						

TP10-42 - Technical and functional specifications

Zones	Total logic zones	42	Telematic services	TCS	✓
	CPU hard-wired zones	6 Sensor Bus 4 conventional		DDNS Tecnoalarm	✓
	Total hard-wired zones	42		Mail Server Tecnoalarm	✓
	Total wireless zones	42		SNTP	✓
Outputs	CPU outputs	6	Internal expansions	Input expansions	1
	Logic sirens	8	Wireless expansions	ASYNC@WL wireless receivers	2
System features	RS485 serial buses	Siren Bus Serial Bus Sensor Bus		Serial expansions	Wireless detectors
	Voice synthesis	✓	Input expansions		10
	Event buffer capacity	7,600 events	Consoles		8
Programs and access management	Programs	8	Control units		8
	Codes	122	Output expansions		16
	Finger prints	96	GSM communicators		1
	Transponders/RFID	100	Bus sirens	4	
	Wireless keys	80	Advanced programming	Actions	1,024
Automation	Timers	8		Timers	512
	Access periods	8		Counters	128
	Calendar	Quadrennial or perpetual		Telephone index	48 numbers
	Memo messages	3 (max. 32 characters)		Reserved output expansions	4
	Remote controls	8	Apps	iPhone, Android, Huawei	myTecnoalarm myTecnoalarm TCS
	Cyclic timers	8	Advanced features	Advanced programming	Software plug-in 2
	Test call with TCP/IP	✓	Electrical specifications	Operating voltage	230V AC +/- 10% 50Hz
Alarm transmission equipment	Communication formats	PSTN		CPU board consumption	150mA @ 13.8V DC
	GSM format (optional)	ESP GSM 4G		Power supply	3A @ 14.4V DC
	GSM-EXT format (optional)	TECNOCELL 4		Battery	12V/12Ah
	IP format (optional)	ESP LAN	Physical specifications	Environmental class	II
	Wi-Fi module (optional)	TECNO WIFI		Casing	Metal
	ATE categories	SP2...SP5 DP1...DP4		Dimensions (L x H x D) (w/o antenna)	398 x 309 x 108mm
	Communication protocols	203		Antenna height	90mm
	Data encryption	AES 128/256 bits		Weight (w/o battery)	4.5kg
	Passphrase	Programmable	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50136-2
	Channels	8		Security grade	2 (TP10-42 EN)
	Server TCP/IP channels	4		Notified body	IMQ
	Client TCP/IP channels	4			
	Transmittable events	157			
	Telephone numbers/IP addresses	2 per channel (max. 24 digits)			
	Call event queue	32			

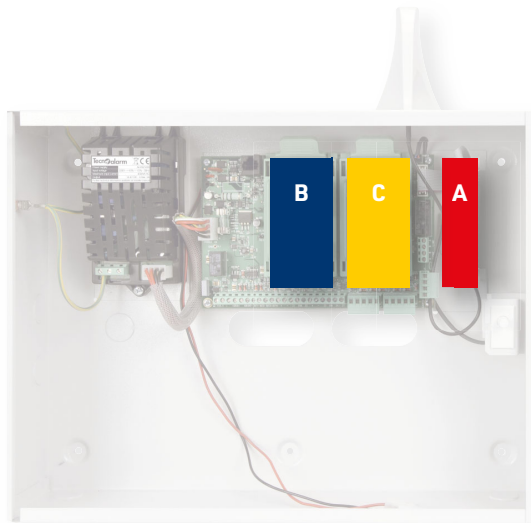
Internal expansions and interfaces

<h3>ESP4-20</h3>					
	<p>Mounting position A B C</p> <p>Expansion module with 4 inputs for connecting conventional, RDV® and Zone Bus detectors from Tecnoalarm</p> <p>Item no. F127TP420ESP</p>				
<h3>ESP LAN</h3>					
	<p>Mounting position A B C</p> <p>Ethernet-Interface for the transmission of alarm notifications and the management of the telematic services TCS, DDNS Tecnoalarm, SNTP and Mail Server Tecnoalarm through the remote management software</p> <p>Item no. F127ESPLAN</p>				
<h3>ESP GSM 4G</h3>					
	<p>Mounting position A B C</p> <p>Interface for connecting the control panel to the mobile network - Transmission of alarm notifications and management of the telematic service TCS through the remote management software - Compatible with all GSM formats from 2G GPRS to 4G LTE - Manages the VoLTE service</p> <p>Item no. F127ESPGSM4G</p>				
<h3>ESP GSM LINK</h3>					
	<p>Mounting position A B C</p> <p>Interface for connecting the TECNOCELL 4 communicator via RS422 serial bus - In this configuration, the TECNOCELL 4 communicator emulates the operation of the ESP GSM 4G interface</p> <p>Item no. F127ESPGSMLINK</p>				

SOFTWARE PLUG-INS

<h3>ADVANCED PROGRAMMING</h3>	<p>Software plug-in no. 2 for advanced programming management N.B. Function subject to license. Indicate serial number of control panel in order.</p> <p>Item no. F127T42/AV</p>		
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MOUNTING POSITIONS



TP10-42

TP10-42

MODELS		EN 50131	PSTN	4G LTE	IP	WLAN	12V 3A POWER SUPPLY	STEEL BOX
Model	Item no.							
TP10-42	F101T42-UK		✓	Optional	Optional	Optional	3A	✓
TP10-42 EN	F101T42EN-UK	Security grade 2	✓	Optional	Optional	Optional	3A	✓

COMMUNICATION DEVICES		TCS	DDNS	MAIL SERVER	APP	RDV	TCP/IP	CMS SERVICE	Supervisor
Format	Device	TCS	DDNS	E-MAIL	APP	RDV®	Software	CMS	Supervisor
PSTN	On board					✓		✓	
GSM*	ESP GSM 4G	✓			✓	✓	✓	✓	
	ESP GSM LINK (TECNOCELL 4)	✓			✓	✓	✓	✓	
GSM-EXT*	TECNOCELL 4							✓	
IP*	ESP LAN	✓	✓	✓	✓		✓	✓	

* Optional communication format

TP10-42 - Accessories

	ANTENNA EXTENSION
	12m extension cord for connecting the antenna to the GSM module
	Item no. C126PROLANT12M

	ANTENNA EXTENSION
	4m extension cord for connecting the antenna to the GSM module
	Item no. C126PROLANTENNA

	ANTENNA KIT
	Multi band GSM antenna with magnetic base and 3m extension cord for installing the antenna on metal surfaces
	Item no. C126ANTENNA3GBA



TP8-88



Serial control panel Expandable from 8 to 88 zones Remote programming and management



TP8-88

ZONES	TP8-88	ESP 4IN	SPEED 8 STD	SPEED 4	SPEED 4-140C	SPEED 8	SPEED ALM8 PL	SPEED 4 PLUS	SPEED 8 PLUS	SPEED ALM8 PLUS	SPEED 4-8 P3A
CONVENTIONAL*	8	4	8	4	4	8	8	4	-	-	4**
ZONE BUS	-		-								
SENSOR BUS	8	-	-	-	-	-	-	4	8	8	8

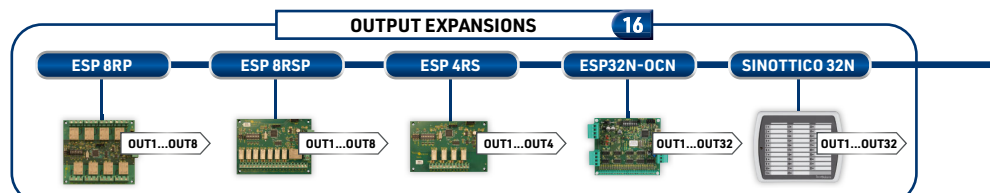
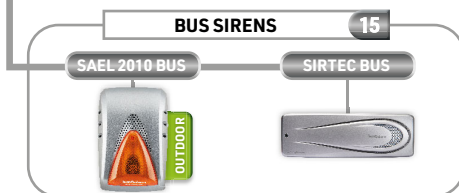
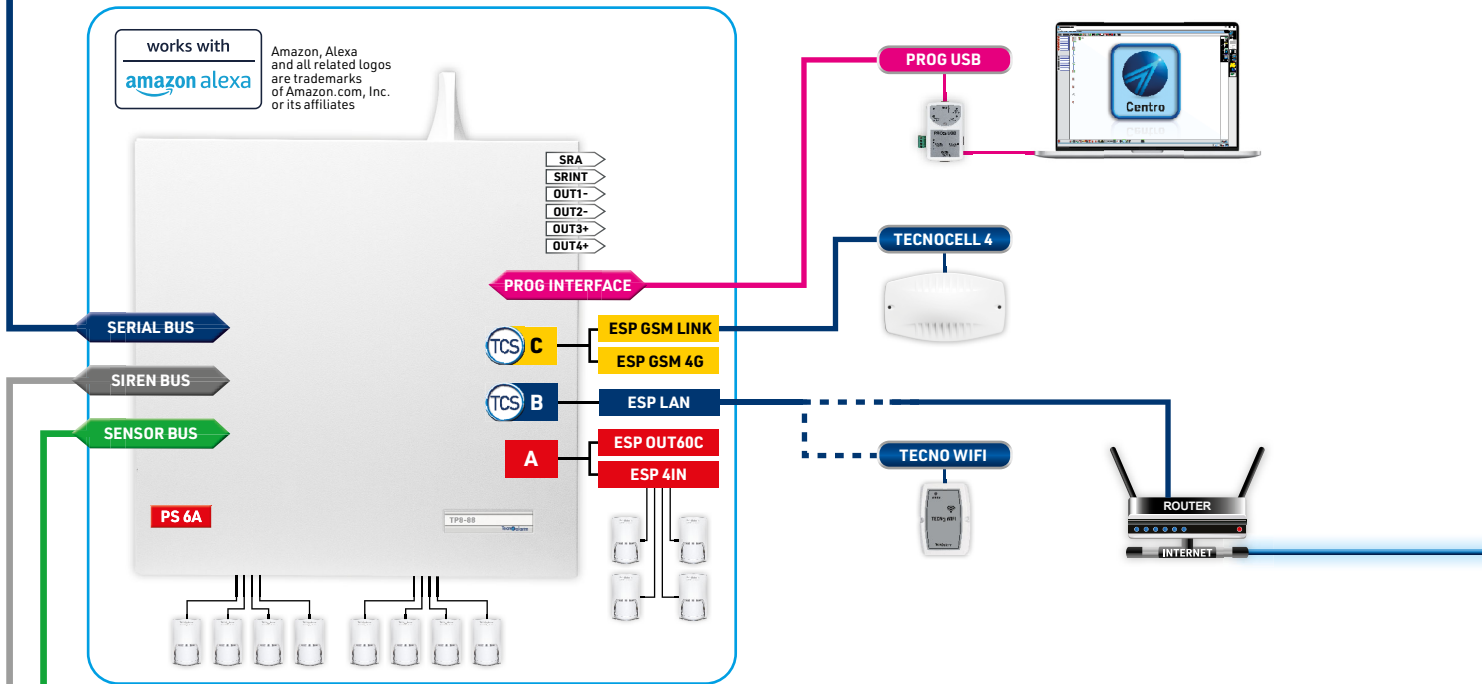
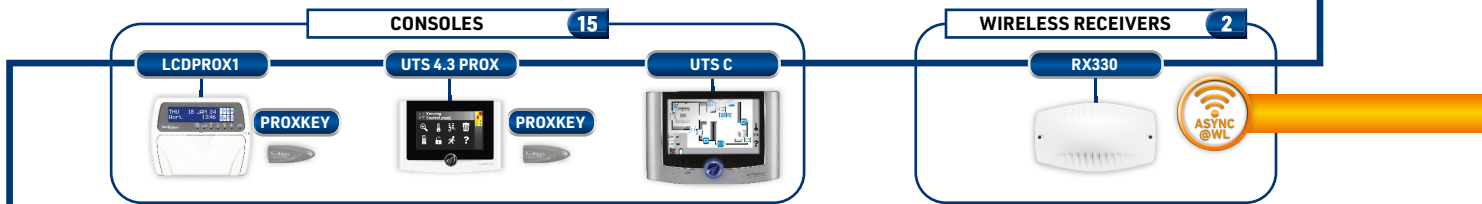
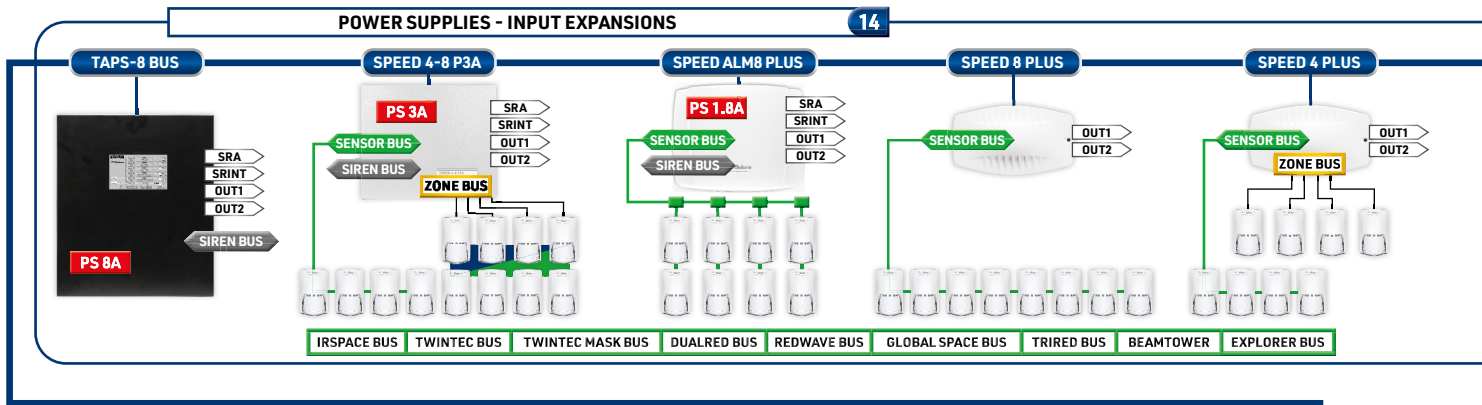
* The following contact types can be programmed: NC (normally closed), NO (normally open), BIL (end-of-line resistor), B24 (double end-of-line resistor). The following filters can be programmed: time, pulse count or inertia vibration.

** The 4 conventional inputs are only available as an alternative to 4 Sensor Bus inputs (max. 8 inputs managed)

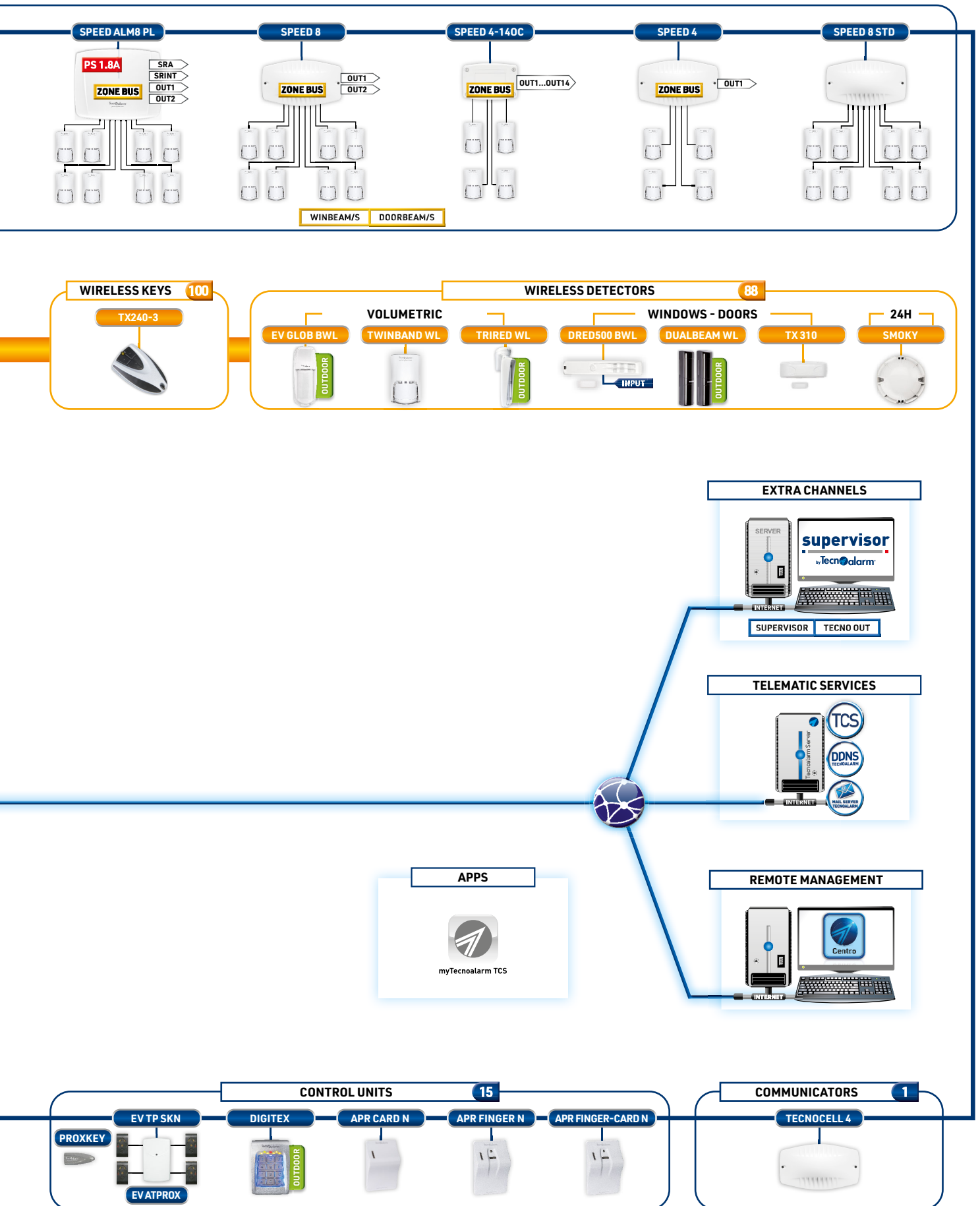
Technical evaluation index	Serial ports			Communication devices				Telematic services and apps				
	SERIAL BUS	SENSOR BUS	SIREN BUS	PSTN	4G LTE	IP	4G GSM-EXT	TCS	DDNS	myTecnalarm TCS		
TP8-88				-	SP2	SP3...5	SP3...5	SP2			-	
TP8-88 EN	A			A				A				

A+: maximum equipment - A: excellent - B: good - C: satisfactory - SP: single path - DP: dual path

The SP and DP values indicate the performance level achieved by either a single communication device or a combination of two, according to the EN 50131 and EN 50136 standards.



System configuration



TP8-88

- 8 to 88 logic zones
- Management of max. 88 hard-wired zones: conventional, Zone Bus and Sensor Bus
- Management of max. 88 wireless zones
- 8 zone inputs for connecting conventional detectors
- 8 Sensor Bus inputs for connecting RSC® detectors
- 1 tamper input
- 6 programmable logic outputs
- 16 logic sirens
- 1 Serial Bus port for connecting conventional peripheral devices
- 1 Sensor Bus port for connecting RSC® detectors
- 1 Siren Bus port for connecting RSC® sirens
- On-board PSTN communication device
- Optional IP and 4G LTE communication devices
- 8 channels for event notification
- 1 call back channel for connection with a monitoring station
- 2 telephone numbers/IP addresses per channel
- 203 protocols for transmission in the formats: Speech, SMS, FSK, Ring, DTMF, Data, E-mail and TCS
- Security: AES 128 and 256 bits data encryption
- Individually programmable passphrase for each channel
- Test call with TCP/IP
- GSM network cell scanner function
- Jammer detector function
- Management of the telematic services TCS, DDNS Tecnoalarm, SNTP and Mail Server Tecnoalarm
- Voice synthesis
- 16 programs with individual time settings
- Management of multiuser systems with common zones
- Programmable coincidence function
- 202 access codes
- 360 transponders/RFID cards
- 100 wireless keys
- Management of biometric finger print and RFID card readers
- 16 remote controls
- 32 timers
- 8 access periods
- 8 cyclic timers
- 4 customizable memos with programmable deactivation priority
- Customizable quadrennial or perpetual calendar
- Automatic Daylight Saving Time/Local Sidereal Time change
- Digital control of the radio range and interferences
- Event buffer with a capacity of 7,600 events
- 14.4V power supply output for battery recharge
- Bay for 2x 12V/17Ah batteries
- Battery test with automatic disconnection in case of failure
- On-board 6A switching power supply
- EN 50131 certification, security grade 3

Technologies and services						
Standard equipment						
Expansions						
Control modes						
Automation						
Advanced features						

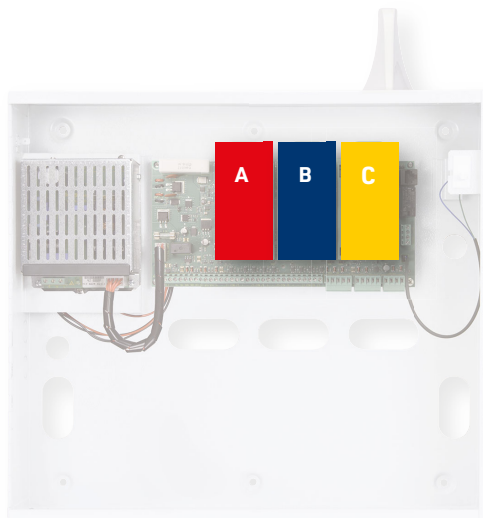
TP8-88 - Technical and functional specifications

Zones	Total logic zones	88	Telematic services	TCS	✓
	CPU hard-wired zones	8 Sensor Bus 8 conventional		DDNS Tecnoalarm	✓
	Total hard-wired zones	88		Mail Server Tecnoalarm	✓
	Total wireless zones	88		SNTP	✓
Outputs	CPU outputs	6	Internal expansions	Input expansions	1
	Logic sirens	8	Wireless expansions	ASYNC@WL wireless receivers	2
System features	RS485 serial buses	Siren Bus Serial Bus Sensor Bus		Serial expansions	Wireless detectors
	Voice synthesis	✓	Input expansions		14
	Event buffer capacity	7,600 events	Consoles		15
Programs and access management	Programs	16	Control units		15
	Codes	202	Output expansions		16
	Finger prints	96	GSM communicators		1
	Transponders/RFID	360	Bus sirens	15	
	Wireless keys	100	Advanced programming	Actions	1,024
Automation	Timers	32		Timers	512
	Access periods	8		Counters	128
	Calendar	Quadrennial or perpetual		Telephone index	48 numbers
	Memo messages	4 (max. 32 characters)		Reserved output expansions	4
	Remote controls	16	Apps	iPhone, Android, Huawei	myTecnoalarm myTecnoalarm TCS
	Cyclic timers	8	Advanced features	Supervisor	✓
	Test call with TCP/IP	✓		Advanced programming	Software plug-in 2
Alarm transmission equipment	Communication formats	PSTN		Tecno Out	Software plug-in 3
	GSM format (optional)	ESP GSM 4G	Electrical specifications	Operating voltage	230V AC +/- 10% 50Hz
	GSM-EXT format (optional)	TECNOCELL 4		CPU board consumption	150mA @ 13.8V DC
	IP format (optional)	ESP LAN		Power supply	6A @ 14.4V DC
	Wi-Fi module (optional)	TECNO WIFI		Batteries	2x 12V/17Ah
	ATE categories	SP2...SP5 DP1...DP4	Physical specifications	Environmental class	II
	Communication protocols	203		Casing	Metal
	Data encryption	AES 128/256 bits		Dimensions (L x H x D) (w/o antenna)	455 x 445 x 115mm
	Passphrase	Programmable		Antenna height	90mm
	Channels	8		Weight (w/o battery)	7kg
	Server TCP/IP channels	4	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50136-2
	Client TCP/IP channels	4		Security grade	3 (TP8-88 EN)
	Extra channels	1		Notified body	IMQ
	Transmittable events	297			
	Telephone numbers/ IP addresses	2 per channel (max. 24 digits)			
Call event queue	32				

Internal expansions and interfaces

<p>ESP 4IN</p>								
	<p>Mounting position A B C</p> <p>Expansion module with 4 inputs for connecting conventional, RDV® and Zone Bus detectors from Tecnoalarm</p> <p>Item no. F127ESP4IN</p>							
<p>ESP OUT60C</p>								
	<p>Mounting position A B C</p> <p>Expansion module with 6 programmable open-collector outputs which can be freely associated to the logic outputs of the system</p> <p>Item no. 127ESP0UT60C</p>							
<p>ESP LAN</p>								
	<p>Mounting position A B C</p> <p>Ethernet-Interface for the transmission of alarm notifications and the management of the telematic services TCS, DDNS Tecnoalarm, SNTP and Mail Server Tecnoalarm through the remote management software with TCP/IP</p> <p>Item no. F127ESPLAN</p>							
<p>ESP GSM 4G</p>								
	<p>Mounting position A B C</p> <p>Interface for connecting the control panel to the mobile network - Transmission of alarm notifications and management of the telematic service TCS through the remote management software - Compatible with all GSM formats from 2G GPRS to 4G LTE - Manages the VoLTE service</p> <p>Item no. F127ESPGSM4G</p>							
<p>ESP GSM LINK</p>								
	<p>Mounting position A B C</p> <p>Interface for connecting the TECNOCELL 4 communicator via RS422 serial bus - In this configuration, the TECNOCELL 4 communicator emulates the operation of the ESP GSM 4G interface</p> <p>Item no. F127ESPGSMLINK</p>							
<p>SOFTWARE PLUG-INS</p>								
<p>ADVANCED PROGRAMMING</p>	<p>Software plug-in no. 2 for advanced programming management N.B. Function subject to license. Indicate serial number of control panel in order.</p> <p>Item no. F127T88/AV</p>							
<p>TECNO OUT</p>	<p>Software plug-in no. 3 for Tecno Out protocol management N.B. Function subject to Non-Disclosure Agreement. Indicate serial number of control panel in order.</p> <p>Item no. F127T88/TECNO</p>							

MOUNTING POSITIONS



TP8-88

TP8-88

MODELS								
Model	Item no.							
TP8-88	F101T88-UK		✓	Optional	Optional	Optional	6A	✓
TP8-88 EN	F101T88EN-UK	Security grade 3	✓	Optional	Optional	Optional	6A	✓

COMMUNICATION DEVICES									
Format	Device	TCS	DDNS	E-MAIL	APP	RDV®	Software	CMS	Supervisor
PSTN	On board					✓		✓	
GSM*	ESP GSM 4G	✓			✓	✓	✓	✓	
	ESP GSM LINK (TECNOCELL 4)	✓			✓	✓	✓	✓	
GSM-EXT*	TECNOCELL 4							✓	
IP*	ESP LAN	✓	✓	✓	✓		✓	✓	✓

* Optional communication format

TP8-88 - Accessories

	ANTENNA EXTENSION
	12m extension cord for connecting the antenna to the GSM module
	Item no. C126PROLANT12M

	ANTENNA EXTENSION
	4m extension cord for connecting the antenna to the GSM module
	Item no. C126PROLANTENNA

	ANTENNA KIT
	Multi band GSM antenna with magnetic base and 3m extension cord for installing the antenna on metal surfaces
	Item no. C126ANTENNA3GBA



TP20-440



Serial control panel Expandable from 20 to 40 zones Remote programming and management



TP20-440

ZONES	TP20-440	ESP 4IN	SPEED 8 STD	SPEED 4	SPEED 4-140C	SPEED 8	SPEED ALM8 PL	SPEED 4 PLUS	SPEED 8 PLUS	SPEED ALM8 PLUS	SPEED 4-8 P3A
CONVENTIONAL*	12	4	8	4	4	8	8	4	-	-	4**
ZONE BUS	-		-								
SENSOR BUS	8	-	-	-	-	-	-	4	8	8	8

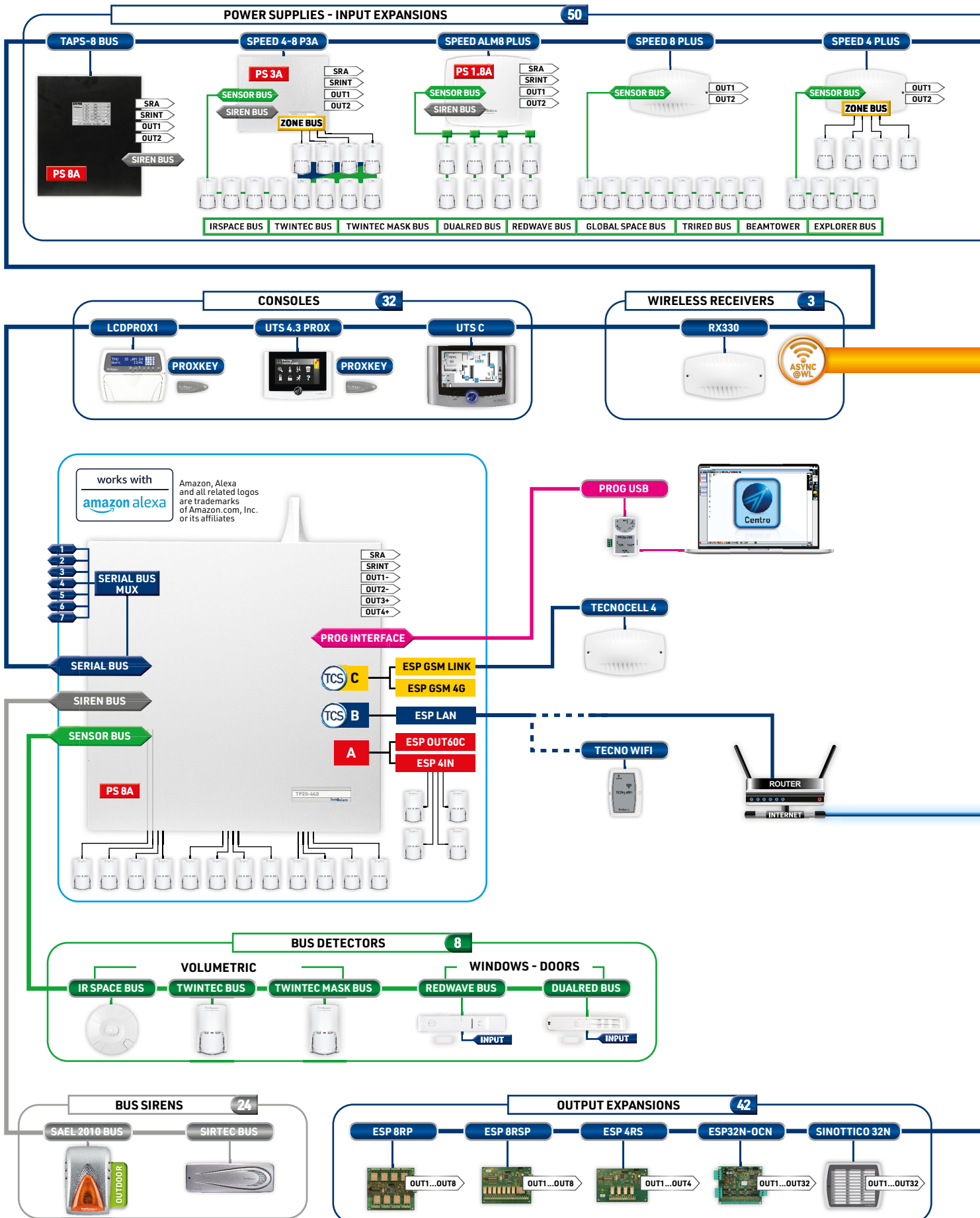
*The following contact types can be programmed: NC (normally closed), NO (normally open), BIL (end-of-line resistor), B24 (double end-of-line resistor). The following filters can be programmed: time, pulse count or vibration.

** The 4 conventional inputs are only available as an alternative to 4 Sensor Bus inputs (max. 8 inputs managed)

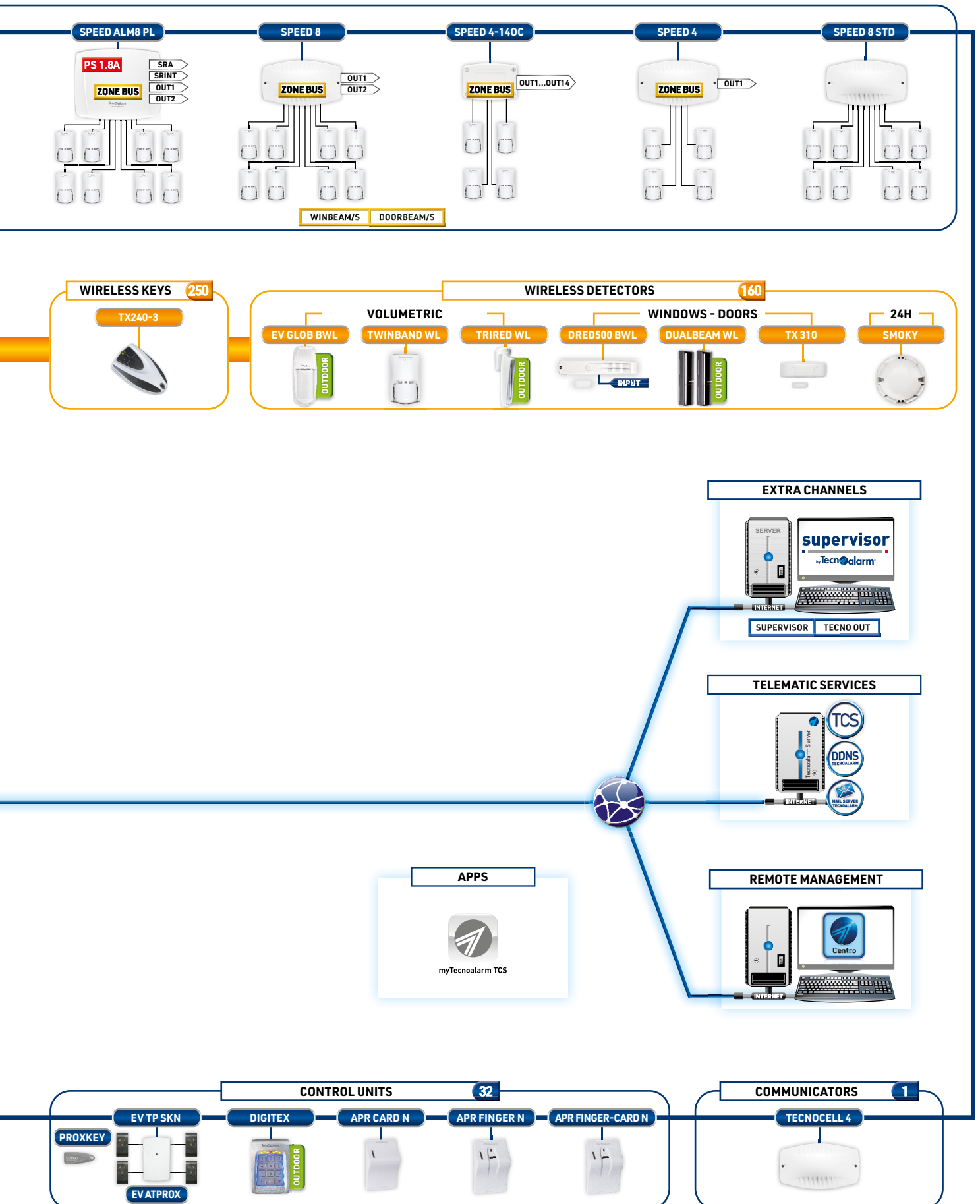
Technical evaluation index	Serial ports			Communication devices				Telematic services and apps			
	SERIAL BUS	SENSOR BUS	SIREN BUS	PSTN	4G LTE	IP	4G GSM-EXT	TCS	DDNS	myTecnAlarm TCS	
TP20-440											
TP20-440 EN	A			A				A			

A+: maximum equipment - A: excellent - B: good - C: satisfactory - SP: single path - DP: dual path

The SP and DP values indicate the performance level achieved by either a single communication device or a combination of two, according to the EN 50131 and EN 50136 standards.





























System configuration



TP20-440

TP20-440

- 20 to 440 logic zones
- Management of max. 424 hard-wired zones: conventional, Zone Bus and Sensor Bus
- Management of max. 160 wireless zones
- 12 zone inputs for connecting conventional detectors
- 8 Sensor Bus inputs for connecting RSC® detectors
- 1 tamper input
- 6 programmable logic outputs
- 1 open-collector output OFF-
- 32 logic sirens
- 1 Serial Bus port for connecting conventional peripheral devices
- 1 Sensor Bus port for connecting RSC® detectors
- 1 Siren Bus port for connecting RSC® sirens
- 1 Serial Bus Mux module with 7 terminals for branching of the serial bus
- On-board PSTN communication device
- Optional IP and 4G LTE communication devices
- 8 channels for event notification
- 1 call back channel for connection with a monitoring station
- 2 telephone numbers/IP addresses per channel
- 203 protocols for transmission in the formats: Speech, SMS, FSK, Ring, DTMF, Data, E-mail and TCS
- Security: AES 128 and 256 bits data encryption
- Individually programmable passphrase for each channel
- Test call with TCP/IP
- GSM network cell scanner function
- Jammer detector function
- Management of the telematic services TCS, DDNS Tecnoalarm, SNTP and Mail Server Tecnoalarm
- Voice synthesis
- 32 programs with individual time settings
- Management of multiuser systems with common zones
- Programmable coincidence function
- 1,000 access codes
- 1,000 transponders/RFID cards
- 250 wireless keys
- Management of biometric finger print and RFID card readers
- 32 remote controls
- 64 timers
- 16 access periods
- 10 cyclic timers
- 6 customizable memos with programmable deactivation priority
- Customizable quadrennial or perpetual calendar
- Automatic Daylight Saving Time/Local Sidereal Time change
- Digital control of the radio range and interferences
- Event buffer with a capacity of 32,000 events
- 14.4V power supply output for battery recharge
- Bay for 2x 12V/17Ah batteries
- Battery test with automatic disconnection in case of failure
- On-board 8A switching power supply
- EN 50131 certification, security grade 3

Technologies and services						
Standard equipment						
Expansions						
Control modes						
Automation						
Advanced features						

TP20-440 - Technical and functional specifications

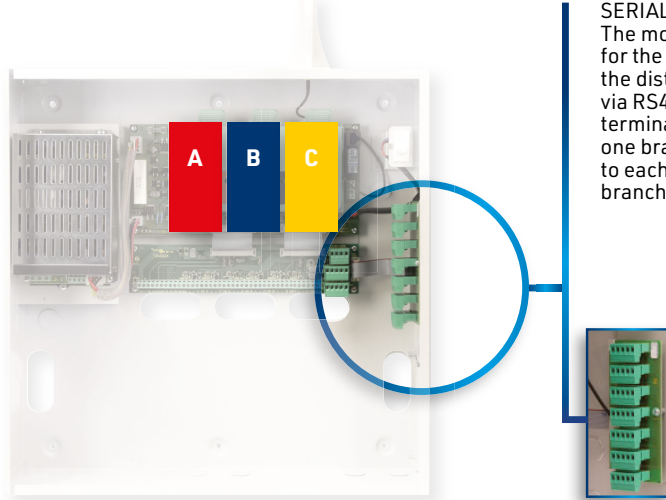
Zones	Total logic zones	440	Telematic services	TCS	✓
	CPU hard-wired zones	8 Sensor Bus 12 conventional		DDNS Tecnoalarm	✓
	Total hard-wired zones	424		Mail Server Tecnoalarm	✓
	Total wireless zones	160		SNTP	✓
Outputs	CPU outputs	6	Internal expansions	Input expansions	1
	Logic sirens	32	Wireless expansions	ASYNC@WL wireless receivers	3
System features	RS485 serial buses	Siren Bus Serial Bus Sensor Bus		Wireless detectors	160
	Voice synthesis	✓	Serial expansions	Input expansions	50
	Event buffer capacity	32,000 events		Consoles	32
Programs and access management	Programs	32		Control units	32
	Codes	1,000		Output expansions	42
	Finger prints	96		GSM communicators	1
	Transponders/RFID	1,000		Bus sirens	24
	Wireless keys	250	Advanced programming	Actions	2,048
Automation	Timers	64		Timers	512
	Access periods	16		Counters	256
	Calendar	Quadrennial or perpetual		Telephone index	48 numbers
	Memo messages	6 (max. 32 characters)		Reserved output expansions	16
	Remote controls	32	Apps	iPhone, Android, Huawei	myTecnoalarm myTecnoalarm TCS
	Cyclic timers	10		Advanced features	Supervisor
	Test call with TCP/IP	✓	Advanced programming		✓
Alarm transmission equipment	Communication formats	PSTN	Tecno Out		Software plug-in 3
	GSM format (optional)	ESP GSM 4G	Electrical specifications	Operating voltage	230V AC +/- 10% 50Hz
	GSM-EXT format (optional)	TECNOCELL 4		CPU board consumption	190mA @ 13.8V DC
	IP format (optional)	ESP LAN		Power supply	8A @ 14.4VDC
	Wi-Fi module (optional)	TECNO WIFI		Battery	2x 12V/17Ah
	ATE categories	SP2...SP5 DP1...DP4	Physical specifications	Environmental class	II
	Communication protocols	203		Casing	Metal
	Data encryption	AES 128/256 bits		Dimensions (L x H x D) (w/o antenna)	455 x 445 x 115mm
	Passphrase	Programmable		Antenna height	90mm
	Channels	8		Weight (w/o battery)	7.8kg
	Server TCP/IP channels	4		Conformity	Standards
	Client TCP/IP channels	4	Security grade		3 (TP20-440 EN)
	Extra channels	1	Notified body		IMQ
	Transmittable events	1,097			
	Telephone numbers/ IP addresses	2 per channel (max. 24 digits)			
	Call event queue	96			

Internal expansions and interfaces

<h3>ESP 4IN</h3>								
	<p>Mounting position A B C</p> <p>Expansion module with 4 inputs for connecting conventional, RDV® and Zone Bus detectors from Tecnoalarm</p> <p>Item no. F127ESP4IN</p>							
<h3>ESP OUT60C</h3>								
	<p>Mounting position A B C</p> <p>Expansion module with 6 programmable open-collector outputs which can be freely associated to the logic outputs of the system</p> <p>Item no. 127ESP0UT60C</p>							
<h3>ESP LAN</h3>								
	<p>Mounting position A B C</p> <p>Ethernet-Interface for the transmission of alarm notifications and the management of the telematic services TCS, DDNS Tecnoalarm, SNTP and Mail Server Tecnoalarm through the remote management software</p> <p>Item no. F127ESPLAN</p>							
<h3>ESP GSM 4G</h3>								
	<p>Mounting position A B C</p> <p>Interface for connecting the control panel to the mobile network - Transmission of alarm notifications and management of the telematic service TCS through the remote management software - Compatible with all GSM formats from 2G GPRS to 4G LTE - Manages the VoLTE service</p> <p>Item no. F127ESPGSM4G</p>							
<h3>ESP GSM LINK</h3>								
	<p>Mounting position A B C</p> <p>Interface for connecting the TECNOCELL 4 communicator via RS422 serial bus - In this configuration, the TECNOCELL 4 communicator emulates the operation of the ESP GSM 4G interface</p> <p>Item no. F127ESPGSMLINK</p>							

SOFTWARE PLUG-INS	
<h3>TECNO OUT</h3>	<p>Software plug-in no.3 for Tecno Out protocol management N.B. Function subject to Non-Disclosure Agreement. Indicate serial number of control panel in order.</p> <p>Item no. F127T440/TECNO</p>

MOUNTING POSITIONS



SERIAL BUS MUX

The module is standard equipment for the TP20-440 system and permits the distribution of the devices connected via RS485 serial bus over several terminals. It is possible to wire one branch line of the serial bus to each terminal. The length of each branch line must not exceed 25 meters.

TP20-440

TP20-440

MODELS								
Model	Item no.							
TP20-440	F101T440-UK		✓	Optional	Optional	Optional	8A	✓
TP20-440 EN	F101T440EN-UK	Security grade 3	✓	Optional	Optional	Optional	8A	✓

COMMUNICATION DEVICES									
Format	Device	TCS	DDNS	E-MAIL	APP	RDV®	Software	CMS	Supervisor
PSTN	On board					✓		✓	
GSM*	ESP GSM 4G	✓			✓	✓	✓	✓	
	ESP GSM LINK (TECNOCELL 4)	✓			✓	✓	✓	✓	
GSM-EXT*	TECNOCELL 4							✓	
IP*	ESP LAN	✓	✓	✓	✓		✓	✓	✓

* Optional communication format

TP20-440 - Accessories

	ANTENNA EXTENSION
	12m extension cord for connecting the antenna to the GSM module
	Item no. C126PROLANT12M

	ANTENNA EXTENSION
	4m extension cord for connecting the antenna to the GSM module
	Item no. C126PROLANTENNA

	ANTENNA KIT
	Multi band GSM antenna with magnetic base and 3m extension cord for installing the antenna on metal surfaces
	Item no. C126ANTENNA3GBA

evolution

EV
SYSTEMS

Tecnoalarm

TP
SYSTEMS



System complements



COMMUNICATORS

Obsolescence and evolution

Due to the progressive obsolescence of the switched telephone lines, the transmission of notifications and the activities of remote management via the PSTN and GSM data networks become more and more difficult.

Thus, the maintenance of the systems installed over the years requires adaptation of the alarm transmission equipment to the constantly evolving communication infrastructure.

Tecnoalarm regularly updates its range of communication devices and supporting connectivity services and,

today, offers fourth-generation technologies and services to modernize your fleet of systems.



Communication format









The security of the communication is determined by the type and number of communication formats and protocols used. Voice or common encryption protocols guarantee a standard security level, whereas protocols that use an AES 128 or 256 bits encryption are defined high-security protocols. The standard EN 50136-1 classifies the alarm transmission equipment in reference to the communication formats and the type of protocols used as well as the reporting time programmed.



Reporting time

In addition to the redundancy and type of communication formats and protocols, for systems connected to a monitoring station, the reporting time constitutes a parameter for the assessment of the level of security of the communication, too. The reporting time refers to the maximum time available for reporting a failure of the alarm transmission equipment. In the Tecnoalarm systems, the function is performed by a cyclic test that supervises the operational state of the system's communication devices at regular intervals.

4G communicators


TECNOCELL 4	      
	<p>The TECNOCELL 4 communicator is compatible with old and new generation Tecnoalarm systems. It can be connected to a control panel via RS485 serial bus or, instead, by means of a dedicated RS422 serial bus and the optional ESP GSM LINK interface. In this way, it emulates the operation of an internal GSM interface and replaces the ESP GSM 4G interface of the control panel. This operating mode allows to decentralize the position of the communicator to obtain two advantages: maximize the signal power and increase the intrinsic security of the system by installing the communicator in a hidden location.</p>
Item no. F104TECNOCELL4	

TECNOCELL 4 - Technical and functional specifications






General features	Type	TECNOCELL 4
System features	Communication parameters	Channels
		Notification
		Events
Hardware	Vocabulary	✓
	Battery	✓
	USB port	USB type B
Anti-tamper protection	Jam detector	✓
	Anti-opening/antidetachment	Micro-switch
Internal GSM mode	Connection	RS422
	Connection interface	ESP GSM LINK
	Communication channels	Tecnoserver
		Remote Server
		Speech - Data - SMS
	Communication protocols	26
	Encryption	AES 128/256 bits
Telematic services	TCS	

External GSM mode	Connection	Serial Bus RS485
	Communication channels	Tecnoserver
		Remote Server
		Speech - Data - SMS
	Communication protocols	20
Emergency numbers	4	
Emergency message	Speech/SMS	
Electrical specifications	Operating voltage	10V...15V DC
	Stand-by consumption	95mA @ 12V DC
	Max. consumption	200mA @ 12V DC
	Batteries	3x NiMH - 1.2V (AA)
Physical specifications	Environmental class	II
	Protection class	IP3x
	Casing	ABS
	Dimensions (L x H x D)	270 x 156 x 68mm
	Weight	520g

TECNOCELL 4 - Accessories

	<p>ESP GSM LINK</p> <p>Interface for connecting the TECNOCELL 4 communicator via RS422 serial bus - In this configuration, the TECNOCELL 4 communicator emulates the operation of the ESP GSM 4G interface</p>
Item no. F127ESPGMLINK	












Ethernet Wi-Fi interfaces

TECNO WIFI	   
	<p>Ethernet-Wi-Fi interface for connecting the control panel to a domestic Wi-Fi network - Ethernet RJ45 connector - Standard 802.11b/g/n Wi-Fi transmission - Management of 1 device</p>
	Item no. F130TECNOWIFI

System complements

TECNO WIFI - Technical and functional specifications

General features	Type	TECNO WIFI	Electrical specifications	Rated voltage	12V DC
	Connection	RJ45		Operating voltage	9V...28V DC
Network features	Ethernet connection	10/100Mbps	Physical specifications	Stand-by consumption	75mA @ 12V DC
	Wi-Fi connection	802.11b/g/n up to 150Mbps		Max. consumption	120mA @ 12V DC
	Frequency	2.4GHz		Environmental class	II
	Encryption	WEP - WPA WPA2 - WPA3		Protection class	IP2x-IK04
Power supply	RJ45 Ethernet cable	EV 10-50 and later	Casing	ABS	
	9-28V DC external power supply	EV 4-24 - TP series	Dimensions (L x H x D)	95 x 67 x 26mm	
			Weight	104g	

SYSTEM	TECNOCELL 4 - INTERNAL GSM MODE - SUPPORTED SERVICES										
	SERVICES	NOTIFICATIONS					TECNOSERVER TCP/IP				
	TCS	Voice protocols	Tecnoalarm protocols	Contact ID protocols	SMS	Emergency SMS	Call back	Keep online	Remonte management	Call back 4G	Keep online 4G
											
TP10-42	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TP8-88	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TP20-440	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



Consoles and control units

A wide range of control units, which meet the highest regulatory, quality and safety standards, are able to solve any application requirement. The range comprises consoles with voice synthesis, graphic displays or touch screens which inform and interact with the user in a simple and intuitive manner, as well as transponders, RFID cards and biometric finger print readers. The user can find the best solution for his needs for practicality, ease of use and security.

Touch screen consoles

UTS C								
	<p>Console with multifunctional user interface composed of: TFT 7" capacitive touch screen, bilingual voice synthesis function, acoustic signaling device and an interactive and intuitive graphic interface with icons contextual to the system status.</p> <p>Graphic help function - Flash memory for the customization of the vocabulary - USB port - Management of 32 programs - RS485 connection - Stylish design - Ultra-thin ASA casing - Surface and flush mounting - Exchangeable white cover plate</p>							
	Item no. F127UTSC							
UTS C A								
	<p>As UTS C but with a software plug-in for the management and customization of floor plans. Each floor plan manages up to 32 icons, which can be associated to devices of the alarm system or navigation functions.</p> <p>In case of alarm, the console automatically shows the corresponding floor plan, but the floor plans can also be viewed on-demand.</p>							
	Item no. F127UTSCAVA							









Consoles and control units

UTS C - Technical and functional specifications

General features	Standard model	UTS C	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Model with floor plan management	UTS C A			
	Connection	Serial Bus RS485			
User interface	Screen	TFT 7" colors	Hardware	Flash memory	1 Gbit
	Resolution	800 x 480 pixel		RAM	32Mbits
	Touch screen	Capacitive		USB port	USB type B
	Infographics	Icons contextual to system status	Electrical specifications	Operating voltage	10V...15V DC
	Voice synthesis	Bi-lingual		Stand-by consumption	90mA @ 12V DC
	Speaker	✓		Max. consumption	240mA @ 12V DC
	Help function	Vocal and graphic	Physical specifications	Environmental class	II
	Programs managed	32		Protection class	IP4x
Floor plan management UTS C A	Floor plans managed	32		Casing	ASA
	Icons per floor plan	32		Dimensions (L x H x D)	225 x 157 x 32mm
	Viewing mode	Manual/automatic	Weight	350g	
	Graphic interface	Programmable			

SOFTWARE PLUG-INS


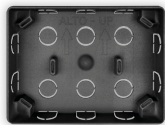
UTS FLOOR PLAN MANAGEMENT	Software plug-in for floor plan management N.B. Indicate serial number of console in order.		
	Item no. F127TSP7L/AV		

UTS 4.3 PROX	    
  	<p>Console with integrated RFID reader and a multifunctional user interface composed of: TFT 4.3" capacitive touch screen, voice synthesis function (connection of S wire from the control panel required), acoustic signaling device and an interactive and intuitive graphic interface with icons contextual to the system status.</p> <p>Graphic help function - Management of 15 programs - RS485 connection - Stylish design - Ultra-thin ASA casing - Surface mounting</p>
	Item no. F127UTS43PROX (white)
	Item no. F127UTS43PROXGR (charcoal gray)







UTS 4.3 PROX - Technical and functional specifications

General features	Type	UTS 4.3 PROX	Electrical specifications	Operating voltage	10V...15V DC
	RFID reader	✓		Stand-by consumption	80mA @ 12V DC
	Connection	Serial Bus RS485		Max. consumption	160mA @ 12V DC
User interface	Screen	TFT 4.3" colors	Physical specifications	Environmental class	II
	Resolution	480 x 272 pixel		Protection class	IP4x
	Touch screen	Capacitive		Casing	ASA
	Infographics	Icons contextual to system status		Dimensions (L x H x D)	154 x 104.6 x 23mm
	Voice synthesis	✓		Weight	230g
	Speaker	✓	Conformity	Standards	EN 50131-1* EN 50131-3*
	Help function	Graphic		Notified body	IMQ
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch	*Approved for certified systems		

UTS C - Accessories

	COVER PLATE		FLUSH MOUNTING BOX
	Replacement cover plate for UTS C		Box for flush or surface mounting of UTS C on walls and gypsum plasterboard - Dimensions (L x H x D) 195 x 147 x 35mm
	Item no. F127UTSVCB (white)		
	Item no. F127UTSVCGM (silver gray)		
	Item no. F127UTSVCG (titanium gray)		Item no. C210INCASSOUTS

Consoles

LCDPROX1	  
  	<p>Console with backlit graphic LCD and integrated RFID reader - Management of 8 programs - RS485 connection - Anti-tamper protection: anti-opening/antidetachment - Stylish design - Antistatic ABS casing - Surface mounting - Dimensions (L x H x D) 150 x 119 x 35mm - White</p>
	Item no. F127LCDPROX1

RFID reader interfaces

EV TP SKN			
	Interface for connecting up to 4 RFID readers of the type EV ATPROX - RS485 connection - ABS casing - Surface mounting - Dimensions (L x H x D) 63 x 101 x 25mm - White		
	Item no. F127EVTPSKN		

RFID readers



















EV ATPROX				
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RFID reader for indoor use with 4 LED and a buzzer - Management of 3 programs - Mounting inside the flush boxes of the main electric switch series - To be used in combination with the EV TP SKN RFID reader interface

EV ATPROX/I	<p>RFID reader module for Vimar Idea* switches - ABS casing - Black</p> <p>Item no. F103EVATPX/I</p>	EV ATPROX/A	<p>RFID reader module for BTicino Axolute* switches - ABS casing - White</p> <p>Item no. F103EVATPX/A</p>
EV ATPROX/L	<p>RFID reader module for BTicino Living* switches - ABS casing - Black</p> <p>Item no. F103EVATPX/L</p>	EV ATPROX/M - EV ATPROX/MN	
		<p>RFID reader module for BTicino Magic* switches - ABS casing</p> <p>Item no. F103EVATPX/M (white)</p> <p>Item no. F103EVATPX/MN (black)</p>	
EV ATPROX/LINTB - EV ATPROX/LINT		EV ATPROX/LNOW - EV ATPROX/LNOB	
<p>RFID reader module for BTicino Living International* switches - ABS casing</p> <p>Item no. F103EVATPX/LINB (white)</p> <p>Item no. F103EVATPX/LINT (black)</p>	<p>RFID reader module for BTicino Living Now* switches - ABS casing -</p> <p>Item no. F103EVATPX/LNOB (white)</p> <p>Item no. F103EVATPX/LNOW (black)</p>		
		EV ATPROX/KEYSTONE	
		<p>RFID reader module for Keystone adapter - ABS casing</p> <p>Item no. F103EVATPX/KB (white)</p> <p>Item no. F103EVATPX/KN (black)</p>	

* The product and brand names are owned by BTicino and Vimar.

Access Point Readers

<h3>APR CARD N</h3>								
	<p>RFID card reader with status LED - Management of 3 programs - RS485 connection - Anti-tamper protection: anti-opening/antidetachment - Stylish Pininfarina design - ABS casing - Surface mounting - Dimensions (L x H x D) 91 x 138 x 54mm</p> <p>Item no. F103APRCARDGN (charcoal gray)</p> <p>Item no. F103APRCARDNN (black)</p> <p>Item no. F103APRCARDBN (white)</p>							
<h3>APR FINGER N</h3>								
	<p>Biometric finger print reader with status LED - Storage of 96 encrypted finger prints - Management of 3 programs - RS485 connection - Anti-tamper protection: anti-opening/antidetachment, anti-spoofing - Stylish Pininfarina design - ABS casing - Surface mounting - Dimensions (L x H x D) 91 x 138 x 54mm</p> <p>Item no. F103APRFINGN (charcoal gray)</p> <p>Item no. F103APRFINNN (black)</p> <p>Item no. F103APRFINBN (white)</p>							
<h3>APR FINGER-CARD N</h3>								
	<p>Biometric finger print and RFID card reader with status LED - Independent or combined access validation with finger prints and/or RFID card - Storage of 96 encrypted finger prints - Management of 3 programs - RS485 connection - Anti-tamper protection: anti-opening/antidetachment, anti-spoofing - Stylish Pininfarina design - ABS casing - Surface mounting - Dimensions (L x H x D) 91 x 138 x 54mm</p> <p>Item no. F103APRFINCARGN (charcoal gray)</p> <p>Item no. F103APRFINCARNN (black)</p> <p>Item no. F103APRFINCARBN (white)</p>							

APR - Accessories

	<h4>COVER</h4> <p>Cover for Access Point Readers protecting against falling droplets - ASA + PC - Dimensions (L x H x D) 115 x 165 x 127mm</p> <p>Item no. F103APRPROT/G (charcoal gray)</p> <p>Item no. F103APRPROT/N (black)</p> <p>Item no. F103APRPROT/B (white)</p>		<h4>MINI USB CABLE</h4> <p>Type A mini USB cable for finger print programming using a PC</p> <p>Item no. F130CAVOMINIUSB</p>
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RFID cards

PERSONAL SECURITY CARD	
	RFID card compatible with APR CARD N and APR FINGER-CARD N readers - Unique non-duplicable nor reprogrammable code
	Item no. F103CARD (gray) - Packs of 10
	Item no. F103CARD/B (white) - Packs of 10
	Item no. F103CARD/BMAGN (white) - Packs of 10 - Magnetic stripe
KEY FOB	
	RFID-MIFARE key fob compatible with APR CARD N and APR FINGER-CARD N readers - Unique non-duplicable nor reprogrammable code
	Item no. F103KEYFOB (gray) - Packs of 10

Transponders

PROXKEY	
	Transponder compatible with EV ATPROX readers, UTS 4.3 PROX, LCDPROX1 - Code can be reprogrammed or duplicated with PROX PROGRAMMER - ABS casing - Gray
	Item no. F103PROXKEY
PROXKEY HS	
	High-security transponder compatible with EV ATPROX readers, UTS 4.3 PROX, LCDPROX1 - Unique non-duplicable nor reprogrammable code - ABS casing - Blue
	Item no. 103PROXKEYHS

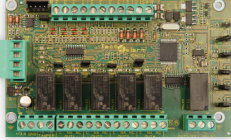
Outdoor keypads


DIGITEX	     
  	<p>Outdoor keypad with capacitive steel membrane - Grazing keypad light generated by LED light strips - Management of 4 programs - RS485 connection - Surface mounting - Waterproof and vandal-proof aluminum die cast casing - Design by Pininfarina - IP65 - To guarantee water tightness, the console comes with 6 meters pre-wired cable - Dimensions (L x H x D) 81 x 121 x 24mm - Varnished aluminum</p>
Item no. F103DIGITEX	

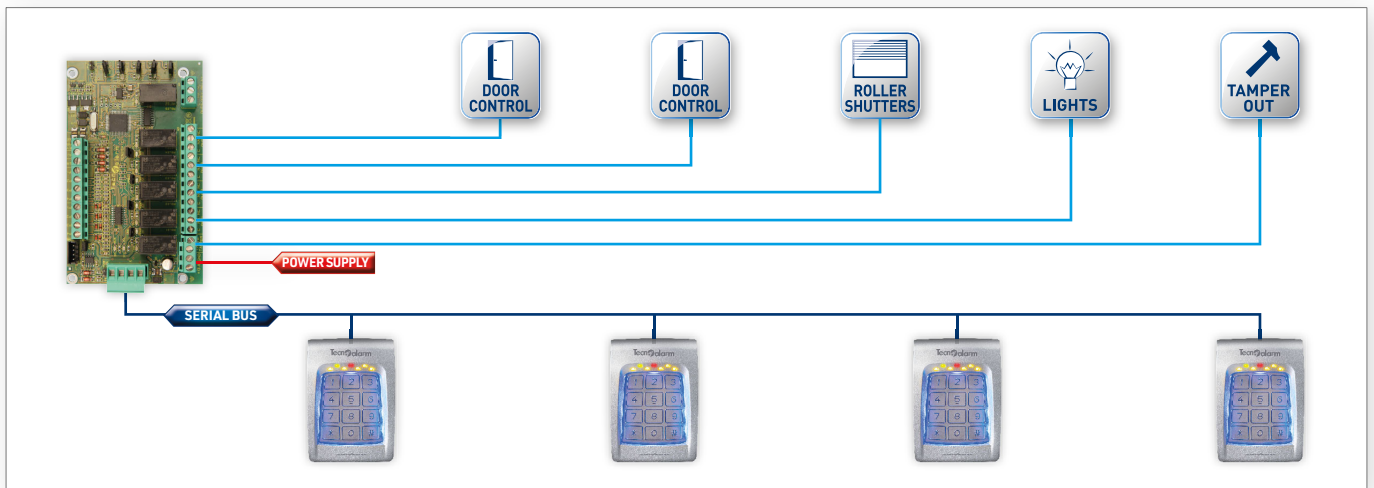
DIGITEX - Technical and functional specifications

General features	Type	DIGITEX	Anti-tamper protection	Anti-opening/antidetachment	Magnetic - reed switch
	Address programming	Digital		Anti-magnet	Magnetic - reed switch
	Connection	RS485			
User interface	Keypad	Capacitive steel membrane	Physical specifications	Connection cable	6m pre-wired
	Optical signaling	7 LED		Environmental class	IV
	Acoustic signaling	Buzzer		Protection class	IP65
	Keypad light	LED light strips - Grazing light		Casing	Al
	Programs managed	4		Dimensions (L x H x D)	81 x 121 x 24mm
				Weight	510g
Electrical specifications	Operating voltage	10V...15V DC	Conformity	Standards	EN 50131-1* EN 50131-3*
	Stand-by consumption	10mA @ 12V DC		Notified body	IMQ
	Max. consumption	136mA @ 12V DC			
Mechanical protection	Casing	Vandal-proof	*Approved for certified systems		


Stand-alone relay control systems

<p>DIGITEX KEY</p>			
	<p>Stand-alone relay control system composed of 1 DIGITEX KEY relay board and up to 4 DIGITEX keypads for outdoor mounting - Management of 5 programmable relay outputs for the control of up to 4 electrical installations - Connection of up to 4 DIGITEX keypads via RS485 serial bus - Dimensions (L x H x D) 127 x 77 x 30mm N.B. Compatible C90 casing is optional</p>		
<p>Item no. F103DIGITEXKEY</p>			

<p>DIGITEX</p>						
	<p>Outdoor keypad with capacitive steel membrane - Grazing keypad light generated by LED light strips - Management of 4 programs - RS485 connection - Surface mounting - Waterproof and vandal-proof aluminum die cast casing - Design by Pininfarina - IP65 - To guarantee water tightness, the console comes with 6 meters pre-wired cable - Dimensions (L x H x D) 81 x 121 x 24mm - Varnished aluminum</p>					
<p>Item no. F103DIGITEX</p>						



DIGITEX KEY - Accessories

	<p>C90</p> <p>Optional casing - Dimensions (L x H x D) 165 x 110 x 41mm - ABS - White</p> <p>Item no. C110C90</p>
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Expansion modules

Inputs - Outputs - Serial bus

The versatile and modular structure can be considered an intrinsic characteristic of the Tecnoalarm systems, characteristic that can also be found in the range of input, output and serial bus expansions.

Tecnoalarm has streamlined the concept of modular architecture, by developing expansion modules that can be used equally by all its systems.

The expansion modules connected to the serial bus allow to locate the inputs and outputs of the system in the most comfortable positions, where actually necessary, favoring a simpler and more economical laying of cables.

Input expansions

SPEED ALM8 PL			8 ZONES	ZONE BUS	CONVENTIONAL ZONE	4 OUTPUTS	12V 1.8A 1.8A POWER SUPPLY	
	Expansion module with 8 inputs for connecting conventional, RDV® and Zone Bus detectors from Tecnoalarm - 2 relay outputs - 2 programmable open-collector outputs - 1.8A switching power supply - Bay for 12V/7Ah battery - RS485 connection - ABS casing - Design by Pininfarina - Dimensions (L x H x D) 350 x 285 x 93mm							
Item no. F101SPEEDALM8PL								
SPEED 8		Approved for certified systems			8 ZONES	ZONE BUS	CONVENTIONAL ZONE	2 OUTPUTS
	Expansion module with 8 inputs for connecting conventional, RDV® and Zone Bus detectors from Tecnoalarm - 2 programmable open-collector outputs - RS485 connection - Dimensions (L x H) 124 x 68mm N.B. Compatible C100P and C90 casings are optional							
Item no. F101SPEED8								
SPEED 4-140C				4 ZONES	ZONE BUS	CONVENTIONAL ZONE	14 OUTPUTS	
	Expansion module with 4 inputs for connecting conventional, RDV® and Zone Bus detectors from Tecnoalarm - 14 programmable open-collector outputs - RS485 connection - Dimensions (L x H) 93 x 59mm N.B. Compatible C80 casing is optional							
Item no. F101SPEED4140C								
SPEED 4		Approved for certified systems		4 ZONES	ZONE BUS	CONVENTIONAL ZONE	1 OUTPUT	
	Expansion module with 4 inputs for connecting conventional, RDV® and Zone Bus detectors from Tecnoalarm - 1 programmable open-collector output - RS485 connection - Dimensions (L x H) 98 x 68mm N.B. Compatible C100P and C90 casings are optional							
Item no. F101SPEED4								
SPEED 8 STD		Approved for certified systems				8 ZONES	CONVENTIONAL ZONE	
	Expansion module with 8 inputs for connecting conventional detectors - RS485 connection - Dimensions (L x H) 98 x 68mm N.B. Compatible C100P and C90 casings are optional							
Item no. F101SPEED8STD								


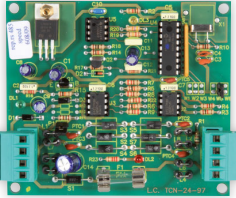


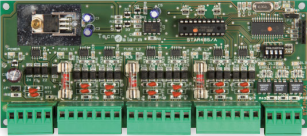
INPUT EXPANSIONS - Accessories




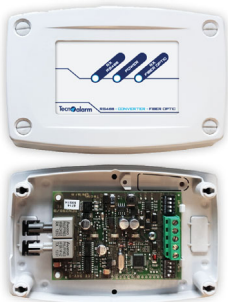
	C100P		C90
	Optional casing - Design by Pininfarina - Dimensions (L x H x D) 270 x 156 x 68mm - ABS - White Item no. C110C100P		Optional casing - Dimensions (L x H x D) 165 x 110 x 41mm - ABS - White Item no. C110C90
			C80
			Optional casing - Dimensions (L x H x D) 140 x 92 x 38mm - ABS - White Item no. C110C80

Output expansions

ESP 8RP		
	<p>Expansion module with 8 programmable relay outputs with potential-free contact - 8 power relays (4A @ 250V AC) - RS485 connection - Address cloning possible - Anti-tamper protection: retrofittable with tamper switch, serial bus sabotage - Dimensions (L x H) 137 x 110mm</p> <p>Item no. F127ESP8RP</p>	
ESP 8RSP		 
	<p>Expansion module with 8 programmable relay outputs with potential-free contact - 7 signal relays (0.3A @ 24V DC) - 1 power relay (4A @ 250V AC) - RS485 connection - Address cloning possible - Anti-tamper protection: retrofittable with tamper switch, serial bus sabotage - Dimensions (L x H) 137 x 91mm</p> <p>Item no. F127ESP8RSP</p>	
ESP 4RS		
	<p>Expansion module with 4 programmable relay outputs with potential-free contact - 4 signal relays (0.3A @ 24V DC) - RS485 connection - Address cloning possible - Anti-tamper protection: retrofittable with tamper switch, serial bus sabotage - Dimensions (L x H) 137 x 80mm</p> <p>Item no. F127ESP4RS</p>	
ESP32-OCN		
	<p>Expansion module with 32 programmable open-collector outputs - RS485 connection - Anti-tamper protection: retrofittable with tamper switch, serial bus sabotage - Dimensions (L x H) 97 x 85mm</p> <p>Item no. F127ESP32OCN</p>	
SINOTTICO 32N		 
	<p>Expansion module with 32 LED for system status signaling - Optical signaling is divided into logic blocks of 32 signals each - Each logic block corresponds to a specific address - RS485 connection - ABS casing - Dimensions (L x H x D) 150 x 118 x 35mm</p> <p>Item no. F127SINOTTICON</p>	

Serial extension modules

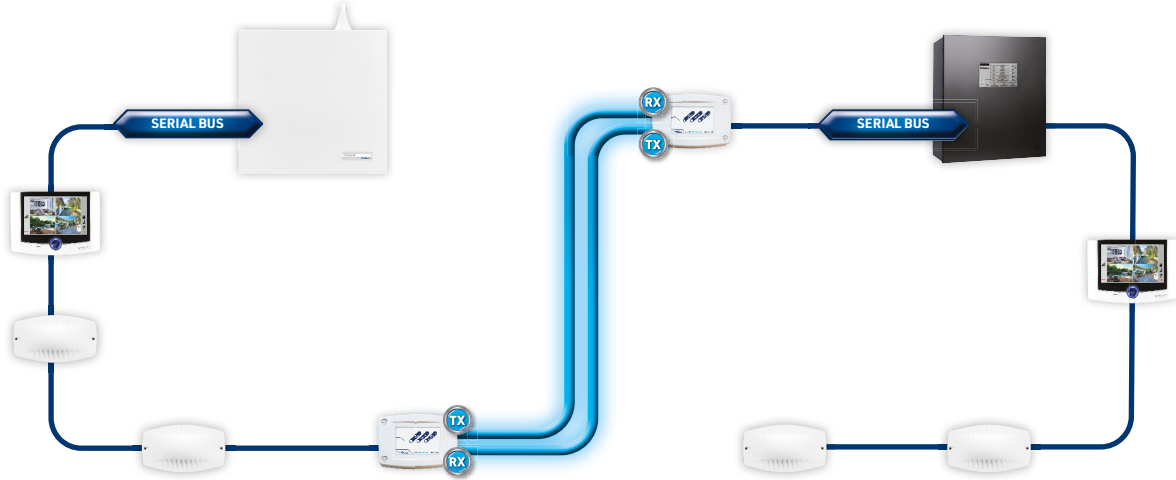
<p>SPEED RS485</p>			
	<p>Extension module with 1 input and 1 protected output for the extension and branching of the RS485 serial bus - Management of 1 star connection with 1 km track length - Programmable baud rate - Dimensions (L x H) 97 x 85mm</p>		
<p>Item no. F127SPEEDRS485</p>			
<p>STAR RS485</p>			
	<p>Extension module with 1 input and 6 protected outputs for the extension and branching of the RS485 serial bus - Management of 6 star connections with 1km track length per branch - Management of 3 loop connections of 800 meters length per loop - Programmable baud rate - Dimensions (L x H) 176 x 74mm</p>		
<p>Item no. F127STAR485</p>			

CONVERTER		  
	<p>RS485-fiber optic converter for the long-distance serial data transmission over fiber optic cables - Management of point-to-point connections with a 2km maximum length for each track - Management of loop connections with 4km maximum loop length - Indicated for areas particularly subject to electrical disturbances, outdoor applications characterized by electrostatic discharges - Programmable master/slave operating mode - Functional settings by dip-switch - Status LED - ABS casing - White</p>	
	Item no. F130CONVFIBRA	

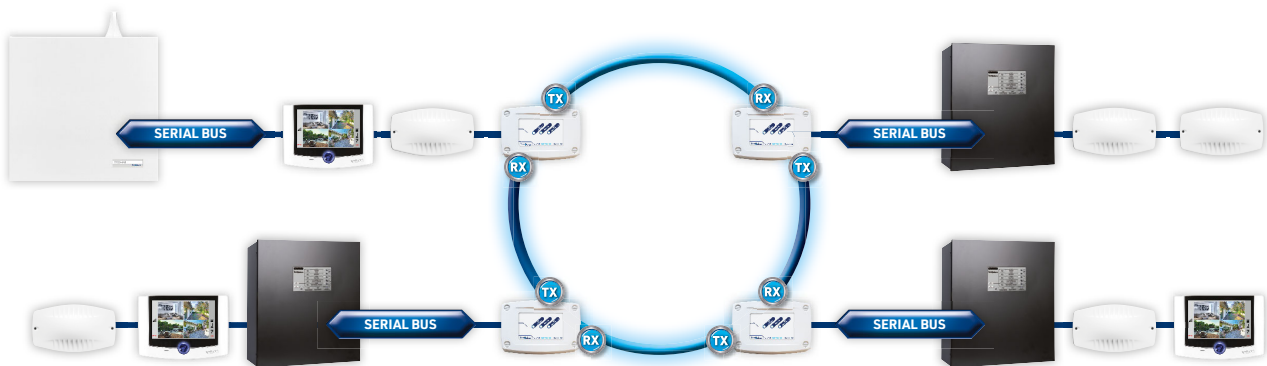
CONVERTER - Technical and functional specifications

General features	Type	CONVERTER	Status signaling	Power supply	✓
	Data input/output interface	Serial Bus RS485		RX RS485	✓
		Fiber optics		RX fiber optic	✓
Serial bus	Serial bus RS485	38,400/9,600bps	Electrical specifications	Operating voltage	8V...31V DC
	Tecnoalarm Sensor Bus	38,400bps		Rated consumption	50mA @ 12V DC
	Tecnoalarm Sync Bus	300bps (EXPLORER BUS) Square wave (BEAMTOWER)	27mA @ 28V DC		
Fiber optics	Fiber optic cable	50/125µm 6.5/125µm	Physical specifications	Environmental class	II
	Wave length	850nm		Protection class	IP42
	Connection	ST connector		Casing	ABS
	Connection type	Point-to-point (2km per track)		Dimensions (L x H x D)	140 x 92 x 38mm
		Loop (4km)		Weight	130g
	Tecnoalarm Sync Bus (BEAMTOWER)	250m per track			

Point-to-point connection



Loop connection



evolution

EV
SYSTEMS

Tecn^oalarm





TP
SYSTEMS



RSC[®]
products

INDOOR

Input expansions

SPEED 4-8 P3A		8 ZONES	SENSOR BUS	SIREN BUS	4 OUTPUTS	12V 3A POWER SUPPLY	SECURITY GRADE 3	CLASS II GENERAL INDOOR	
 	Expansion module with on-board power supply unit - Management of 8 logic zones - 1 Sensor Bus port for the connection of 8 RSC® detectors and 4 inputs for the connection of conventional, RDV® and Zone Bus detectors from Tecnoalarm - 1 Siren Bus port for the connection of RSC® sirens - 4 programmable outputs - Integrated RSC® technology: remote programming and management - Self test and automatic battery disconnection in case of deep discharge - 3A switching power supply - Bay for 12V/12Ah battery - RS485 connection - Metal casing - Dimensions (L x H x D) 315 x 260 x 108mm - Gray - EN 50131-6 certification security grade 2 or 3 (depending on the current provided by the battery and the degree of remote management of the system)								
Item no. F101SPEED48P3A									

SPEED 4-8 P3A - Technical and functional specifications

General features	Type	SPEED 4-8 P3A	Electrical specifications battery	Capacity	12V/12Ah
	Integrated power supply	3A/13.8V DC type A		Battery test	Automatic
	Connection	Serial Bus RS485		Charging time	80% ca. 15h (1 battery of 12Ah)
Zones	Total logic zones	8		Low battery threshold	10.8V DC
	Zones types	4 conventional 8 Sensor Bus		Cut-off voltage	<8.8V DC
System equipment	Serial buses	Serial Bus Sensor Bus Siren Bus		Physical specifications	Environmental class
	Outputs	4 programmable	Protection class		IP3x
Electrical output specifications	Power supply outputs	3	Casing		Metal
	Output voltage	12.5V...13.8V DC	Dimensions (L x H x D)		315 x 260 x 108mm
	Max. ripple	≤80mVpp	Weight	3.2kg	
	Battery recharge current	800mA	Autonomy	Security grade 2	12h (1Ah*)
	Current available for loads	Max. 2.1A		Security grade 3	60h (0.2Ah*)
	Overvoltage signal	>16V DC ±10%		Security grade 3 remotely controlled	30h (0.4Ah*)
Anti-tamper protection	Overcharge signal	1 LED per output	Conformity	Standard	EN 50131-6
	Anti-opening/antidetachment	Micro-switch		Security grade	2/3**
Electrical specifications power supply	Type	14.4V DC - 3A switching		Notified body	IMQ
	Operating voltage	230V AC +10/-15% 50Hz	* Available current for loads in case of power failure ** The security grade is determined by the current provided by the battery and the degree of remote management of the system.		
	CPU consumption	100mA @ 13.8V DC			
	Max. consumption	450mA AC			



SPEED ALM8 PLUS		8 ZONES	SENSOR BUS	SIREN BUS	4 OUTPUTS	12V 1.8A 1.8A POWER SUPPLY	CLASS II GENERAL INDOOR	
	Expansion module with on-board power supply unit - Management of 8 logic zones - 1 Sensor Bus port for the connection of 8 RSC® detectors - 1 Siren Bus port for the connection of RSC® sirens - 4 programmable outputs - Integrated RSC® technology: remote programming and management - Self test and automatic battery disconnection in case of deep discharge - 1.8A switching power supply - Bay for 12V/7Ah battery - RS485 connection - Design by Pininfarina - ABS casing - Dimensions (L x H x D) 350 x 285 x 93mm - White							
Item no. F101SPEALM8PLUS								

SPEED ALM8 PLUS - Technical and functional specifications

General features	Type	SPEED ALM8 PLUS	Electrical specifications power supply	Type	1.8A/14.4V DC switching
	Integrated power supply	1.8A/13.8V DC		Operating voltage	230V AC +10/-15% 50Hz
	Connection	Serial Bus RS485		Consumption CPU	80mA @ 13.8V DC
Zones	Total logic zones	8	Electrical specifications battery	Max. consumption	200mA AC
	Zones types	8 Sensor Bus		Capacity	12V-7Ah
System equipment	Serial buses	Serial Bus Sensor Bus Siren Bus		Physical specifications	Low battery threshold
	Outputs	4 programmable	Cut-off voltage		<8.8V DC
Electrical output specifications	Power supply outputs	3	Environmental class		Environmental class
	Output voltage	12.5V...13.8V DC		Protection class	IP3x
	Max. ripple	≤90mVpp		Casing	ABS
	Battery recharge current	280mA		Dimensions (L x H x D)	350 x 285 x 93mm
	Current available for loads	Max. 1.4A		Weight	2.35kg
Anti-tamper protection	Overvoltage signal	>16V DC ±10%			
	Anti-opening/antidetachment	Micro-switch			

RSC® - Remote Sensitivity Control

SPEED 8 PLUS					8 ZONES	SENSOR BUS	2 OUTPUTS
	Expansion module - Management of 8 logic zones - 1 Sensor Bus port for the connection of 8 RSC® detectors - 2 programmable outputs - Integrated RSC® technology: remote programming and management - RS485 connection - Dimensions (L x H) 124 x 68mm N.B. Compatible C100P and C90 casings are optional						
Item no. F101SPEED8PLUS							

SPEED 4 PLUS				8 ZONES	SENSOR BUS	ZONE BUS	CONVENTIONAL ZONE	1 OUTPUT
	Expansion module - Management of 8 logic zones - 1 Sensor Bus port for the connection of 8 RSC® detectors and 4 inputs for the connection of conventional, RDV® and Zone Bus detectors from Tecnoalarm - 1 programmable output - Integrated RSC® technology: remote programming and management - RS485 connection - Dimensions (L x H) 124 x 68mm N.B. Compatible C100P and C90 casings are optional							
Item no. F101SPEED4PLUS								

INPUT EXPANSIONS - Accessories

	C100P		C90
Optional casing - Design by Pininfarina - Dimensions (L x H x D) 270 x 156 x 68mm - ABS - White		Optional casing - Dimensions (L x H x D) 165 x 110 x 41mm - ABS - White	
Item no. C110C100P		Item no. C110C90	

INDOOR












External power supplies

TAPS-8 BUS		12V 8A 8A POWER SUPPLY	PFC POWER FACTOR CORRECTION	SIREN BUS	4 OUTPUTS	SECURITY GRADE 3	CLASS II GENERAL INDOOR	STEEL BOX
	Type A power supply for Tecnoalarm systems - 1 Siren Bus port for the connection of RSC® sirens - 4 programmable outputs - Integrated RSC® technology: remote programming and management - Self test and automatic battery disconnection in case of deep discharge - Front panel with 6 status LED - 8A/13.8V DC switching Fly-back power supply - Bay for 2x 12V/17Ah batteries - RS485 connection - Metal casing - Dimensions (L x H x D) 320 x 365 x 170mm - Black - EN 50131-6 certification security grade 2 or 3 (depending on the current provided by the batteries and the degree of remote management of the system)							
	Item no. F107TAPS-8BUS							

TAPS-8 BUS - Technical and functional specifications

General features	Power supply	Type A 8A/13.8V DC	Electrical specifications battery	Capacity	2x 12V/17Ah	
	Connection	Serial Bus RS485		Battery test	Automatic/manual	
System equipment	Serial buses	Serial Bus Siren Bus	Physical specifications	Charging time	80% ca. 19h (2 batteries of 17Ah)	
	Outputs	4 programmable		Low battery threshold	10.8V DC	
Electrical output specifications	Power supply outputs	6		Autonomy Security grade	Cut-off voltage	<8.8V DC
	Output voltage	12.5V...13.8V DC			Security grade 2	12h (2.83Ah*)
	Max. ripple	≤50mVpp	Security grade 3		60h (0.56Ah*)	
	Battery recharge current	850mA each	Security grade 3 remotely controlled	30h (1.12Ah*)		
	Current available for loads	Max. 5.5A	Conformity	Standard	EN 50131-6	
	Overvoltage signal	>16V DC ±10%		Security grade	2/3**	
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch	Notified body	IMQ		
Electrical specifications power supply	Type	8A/14.4V DC switching Fly-back	* Available current for loads in case of power failure **The security grade is determined by the current provided by the battery and the degree of remote management of the system			
	Operating voltage	230V AC +10/-15% 50Hz				
	Max. consumption	600mA AC				

Dual technology for indoor use

TWINTec BUS	       
  	<p>Dual technology detector - Volumetric protection: 29 infrared beams, 4 levels, 108° coverage, 18m maximum range - Programmable detection logic - RDV® function - Integrated RSC® technology: remote programming and management - Self test and automatic temperature compensation - Anti-tamper protection: anti-opening/antidetachment - Environmental class II (indoor general) - ABS casing - Design by Pininfarina - White - EN 50131 certification authorizes the use of the swivel mounting bracket</p>
	Item no. F102TWINB18/V - MW frequency 10.525GHz
	Item no. F102TWB18/V-99 - MW frequency 9.9GHz
	Item no. F102TWB18/V-93 - MW frequency 9.35GHz

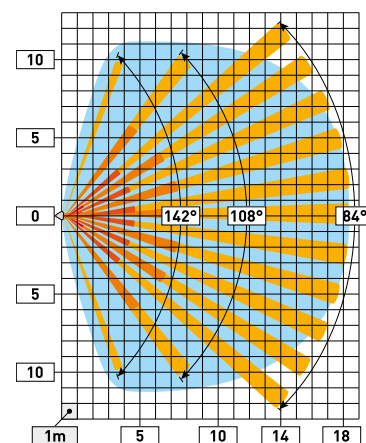
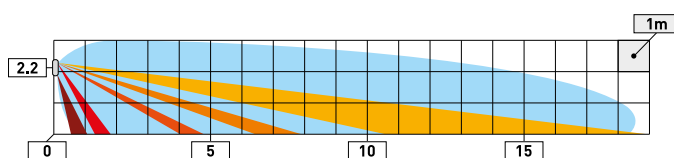
TWINTec BUS - Technical and functional specifications

General features	Type	TWINTec BUS
	Connection	Sensor Bus
Detection features	Infrared detector	Dual PIR element
	Infrared beams	29
	Levels (infrared beams)	4
	IR settings	Pulse count
	Temperature compensation	Automatic
	Microwave frequency	10.525GHz*
	MW settings	Sensitivity
	Coverage	Response time
	Detection logic	108°, 18m range
Anti-tamper protection	Anti-opening/antidetachment	AND AND + WALK
		Programmable
		Programmable
	Anti-opening/antidetachment	Micro-switch

Test functions	Self test	Automatic
Electrical specifications	Operating voltage	9V...15V DC
	Stand-by consumption	17mA @ 12V DC
	Max. consumption	28mA @ 12V DC
Physical specifications	Environmental class	II
	Protection class	IP4x-IPK04
	Casing	ABS
	Dimensions (L x H x D)	68 x 118 x 51mm
	Weight	160g
Conformity	Standards	EN 50131-2-4
	Security grade	2
	Notified body	IMQ

* Also available with the frequencies 9.9GHz and 9.35GHz

Coverage diagrams (TWINTec BUS - TWINTec MASK BUS)





TWINTec MASK BUS	
	<p>Dual technology detector - Volumetric protection: 29 infrared beams, 4 levels, 108° coverage, 18m maximum range - Programmable detection logic - RDV® function - Integrated RSC® technology: remote programming and management - Self test and automatic temperature compensation - Anti-tamper protection: anti-opening/antidetachment, antimasking - In the event of a masking attempt, the detector automatically adopts the Walk logic - Environmental class II (indoor general) - ABS casing - Design by Pininfarina - White - EN 50131 certification authorizes the use of the swivel mounting bracket</p>
	Item no. F102TWINMB18/V - MW frequency 10.525GHz
	Item no. F102TWMB18/V-99 - MW frequency 9.9GHz
	Item no. F102TWMB18/V-93 - MW frequency 9.35GHz

TWINTec MASK BUS - Technical and functional specifications

General features	Type	TWINTec MASK BUS
	Connection	
Detection features	Infrared detector	Dual PIR element
	Infrared beams	29
	Levels (infrared beams)	4
	IR settings	Pulse count
	Temperature compensation	Automatic
	Microwave frequency	10,525GHz*
	MW settings	Sensitivity Response time
	Coverage	108°, 18m range
	Detection logic	OR - AND AND + WALK
	RDV®	Programmable
Inhibition of detection	Programmable	
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Antimasking	Programmable

Test functions	Self test	Automatic
Electrical specifications	Operating voltage	9V...15V DC
	Stand-by consumption	20mA @ 12V DC
	Max. consumption	30mA @ 12V DC
Physical specifications	Environmental class	II
	Protection class	IP4x-IPK04
	Casing	ABS
	Dimensions (L x H x D)	68 x 118 x 51mm
	Weight	160g
Conformity	Standards	EN 50131-2-4
	Security grade	3
	Notified body	IMQ

* Also available with the frequencies 9.9GHz and 9.35GHz

TWINTec BUS - TWINTec MASK BUS - Accessories

	SNODO 2000 Swivel mounting bracket with H±45°, V-15° orientation - Surface mounting - Anti-tamper protection: anti-opening/antidetachment
	Item no. F102SNODO2000



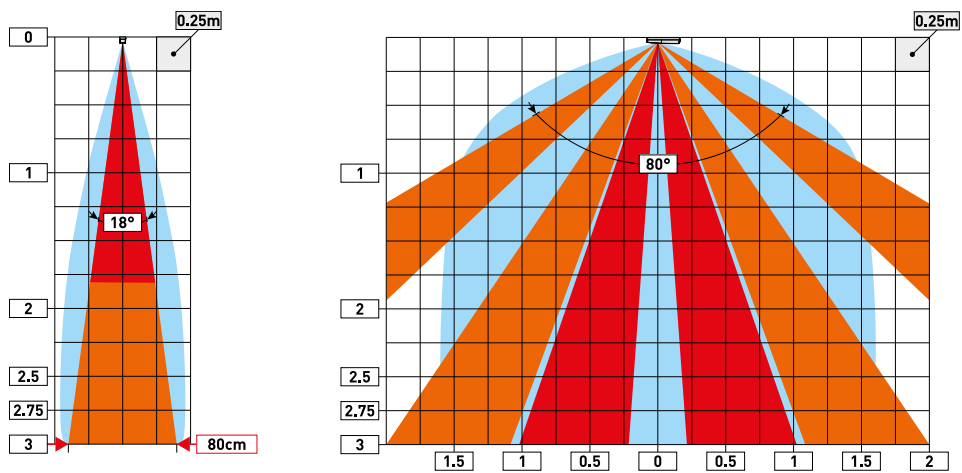
REDWAVE BUS	
 	<p>Detector for protection of openings, windows and doors - 2 independent detection units (dual ID): dual technology PIR + MW element (ID1), internal contact and/or input for external device (ID2) - Volumetric protection: 6 infrared beams, 1 level, coverage 80° on the horizontal, 18° on the vertical plane, 3m maximum range - AND and WALK detection logic - Self test and automatic temperature compensation - External device: magnetic contact, rope contact or vibration detector - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment - Environmental class II (indoor general) - ASA casing - Elegant and compact design</p>
	Item no. F102REDWAVEBUS (white)
	Item no. F102REDWAVEBUSM (brown)

RSC® - Remote Sensitivity Control








REDWAVE BUS - Technical and functional specifications

General features	Type	REDWAVE BUS	Detection features ID2 - Contact	Reed	Excludable	
	Zones occupied	2 (ID1 + ID2)		Input for external device	Magnetic contact Rope contact Vibration detector	
	Connection	Sensor Bus		Filter	Programmable	
Detection features ID1 - IR/MW	Infrared detector	Dual PIR element	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch	
	Infrared beams	6	Test functions	Self test	Automatic	
	Levels (infrared beams)	1	Electrical specifications	Operating voltage	10V...14.5V DC	
	Microwave frequency	24GHz		Stand-by consumption	40mA @ 12V DC	
	Coverage	H 80°, V 18°, 3m range		Max. consumption	52mA @ 12V DC	
	Detection logic	AND WALK AND + RDV®	Physical specifications	Environmental class	II	
	RDV®	Programmable		Protection class	IP4x-IK04	
	Settings	Pulse count Delay Sensitivity Open gate mode		Casing	ASA	
	Temperature compensation	Automatic		Dimensions (L x H x D)	180 x 33 x 32mm	
	Inhibition of detection	Programmable	Weight	140g	Conformity	Standards
		Security grade	2			
		Notified body	IMQ			

Coverage diagrams



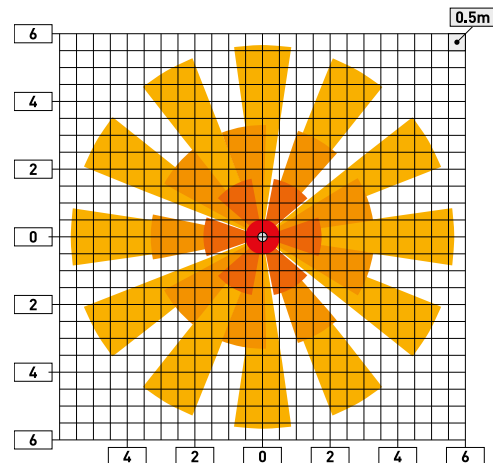
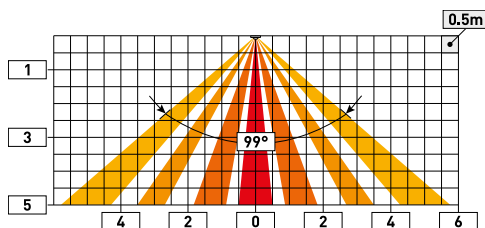
Passive infrared for indoor use

IRSPACE BUS	     
	<p>Passive infrared detector - Volumetric protection: 28 infrared beams, 4 circles, 360° coverage, 5m maximum range - Programmable pulse count and sensitivity - Self test and automatic temperature compensation - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment - Surface ceiling mount - Environmental class II (indoor general) - ASA casing - White</p>
Item no. F102IRSPACEBUS	

IRSPACE BUS - Technical and functional specifications

General features	Type	IRSPACE BUS	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Connection	Sensor Bus			
Detection features	Infrared detector	Dual PIR element	Test functions	Self test	Automatic
	Infrared beams	28			
	Levels (infrared beams)	4	Electrical specifications	Operating voltage	10V...14.5V DC
	Coverage	H 360°, V 99°, 5m range		Stand-by consumption	18mA @ 12V DC
	Settings	Pulse count Sensitivity		Max. consumption	24mA @ 12V DC
	Temperature compensation	Automatic		Physical specifications	Environmental class
Inhibition of detection	Programmable	Protection class	IP4x-IK04		
		Casing	ASA		
			Dimensions (Ø x H)	104 x 40mm	
			Weight	184g	

Coverage diagrams



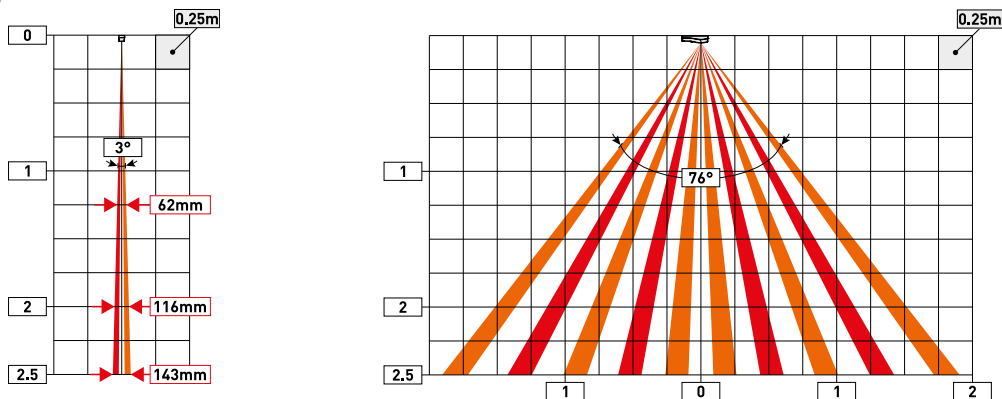


DUALRED BUS							
	<p>Detector for protection of openings, windows and doors - 2 independent detection units (dual ID): dual PIR element (ID1), internal contact and/or input for external device (ID2) - Volumetric protection: 10 infrared beams, 2 levels, coverage 76° on the horizontal, 3° on the vertical plane, 2.5m maximum range - The detection units can be associated to 1 zone with AND/OR detection logic or to 2 zones - Self test and automatic temperature compensation - External device: magnetic contact, rope contact or vibration detector - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, antimasking - Environmental class II (indoor general) - ASA casing - Elegant and compact design</p>						
Item no. F102DUALREDBUS (white)							
Item no. F102DUALREDBUSM (brown)							




DUALRED BUS - Technical and functional specifications

General features	Type	DUALRED BUS	Operating mode	Combined (AND/OR detection logic)	Occupies 1 zone
	Zones occupied	2 (ID1 + ID2)		Independent	Occupies 2 zones
	Connection	Sensor Bus	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
Detection features ID1 IR	Infrared detector	2 dual PIR elements		Antimasking	Programmable
	Infrared beams	10	Test functions	Self test	Automatic
	Levels (infrared beams)	2		Electrical specifications	Operating voltage
	Coverage	H76°, V3°, 2.5m range	Stand-by consumption		20mA @ 12V DC
	Settings	Pulse count Sensitivity Range Sense of beam crossing	Max. consumption		25mA @ 12V DC
	Temperature compensation	Automatic	Physical specifications	Environmental class	II
	Inhibition of detection	Programmable		Protection class	IP4x-IK04
Detection features ID2 Contact	Reed	Excludable		Casing	ASA
	Input for external device	Magnetic contact Rope contact Vibration detector		Dimensions (L x H x D)	168 x 30 x 46mm
	Filter	Programmable	Weight	132g	
	Self exclusion	Programmable			

Coverage diagrams



Dual technology for outdoor use

GLOBAL SPACE BUS		3IR+MW AND LOGIC	COVERAGE 15m 84°	ANTI-MASK	SELF TEST	TEMPERATURE COMPENSATION	SECURITY GRADE 3	CLASS III SHELTERED OUTDOOR	IP44
 	<p>Infrared and microwave detector for protection of sheltered outdoor areas close to the building, gardens and terraces - High-density volumetric protection with multi-point technology: 43 infrared beams, 5 levels, 15m maximum range - Coverage adjustable with lens shutter - Programmable AND detection logic - Pulse count and sensitivity programmable for each infrared element - Self test and automatic temperature compensation - Integrated RSC® technology: remote programming and management - Great versatility of installation thanks to a comprehensive range of accessories - Anti-tamper protection: anti-opening/antidetachment, antimasking - Environmental class III (indoor and sheltered outdoor) - ASA casing - White</p> <p>Art.-Nr. F102GLOSPACEBUS - MW frequency 10.525GHz</p> <p>Art.-Nr. F102GLOSPBUS/99 - MW frequency 9.9GHz</p> <p>Art.-Nr. F102GLOSPBUS/93 - MW frequency 9.35GHz</p>								

RSC® - Remote Sensitivity Control

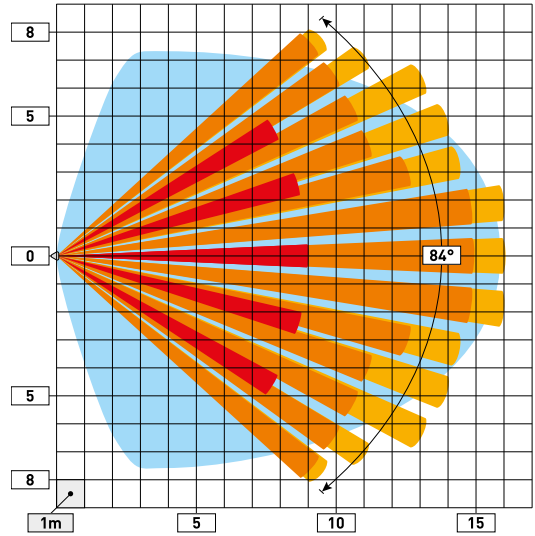
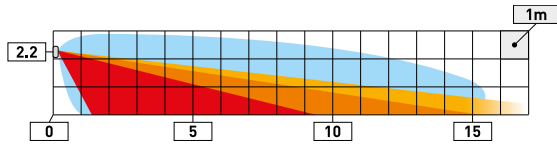
GLOBAL SPACE BUS - Technical and functional specifications

General features	Type	GLOBAL SPACE BUS	Anti-tamper protection	Anti-opening/detachment	Micro-switch
	Connection	Sensor Bus		Antimasking	Programmable
Detection features	Infrared detector	3 dual PIR elements	Test functions	Self test	Automatic
	Infrared beams	43		Electrical specifications	Operating voltage
	Levels (infrared beams)	5	Stand-by consumption		20mA @ 12V DC
	Coverage	84° (adjustable), 15m range	Max. consumption		28mA @ 12V DC
	Coverage adjustment	Lens shutter	Physical specifications	Environmental class	III
	IR settings	Pulse count Sensitivity		Protection class	IP44-IK04
	Temperature compensation	Automatic		Casing	ASA
	Microwave frequency	10.525GHz*		Dimensions (L x H x D)	76 x 192 x 83mm
	MW settings	Sensitivity Response time	Conformity	Weight	240g
	Detection logic	OR AND		Standards	EN 50131-2-4
	RDV®	Programmable		Security grade	3
Inhibition of detection	Programmable		Notified body	IMQ	

* Also available with the frequencies 9.9GHz and 9.35GHz



Coverage diagrams



GLOBAL SPACE BUS - Accessories

	<p>CORNER MOUNTING BRACKET</p> <p>Corner mounting bracket for wall mounting with 22.5° or 45° angle - ASA - White</p> <hr/> <p>Item no. F102STAFFAGLOB</p>		<p>RAIN COVER</p> <p>Rain cover for protection against bad weather and sunlight - ASA - White - Dimensions (L x H x D) 136 x 58 x 162mm</p> <hr/> <p>Item no. F102GLOCALOTTA</p>
	<p>SNODO GLOBAL SPACE</p> <p>Swivel mounting bracket with H ±90°, ±10°V orientation - Surface mounting - Anti-tamper protection: antidetachment</p> <hr/> <p>Item no. F102SNODOGLOB</p>		



Passive infrared for outdoor use

TRIRED BUS							
	<p>Infrared detector for protection of sheltered outdoor areas close to the building, balconies and terraces - Volumetric protection: 3 infrared beams with curtain lenses, 3 levels, coverage 5.7° on the horizontal, 3.6° on the vertical plane, 30m maximum range - Integrated swivel mounting bracket with ample opportunities for orientation - Programmable AND detection logic - Pulse count and sensitivity programmable for each infrared element - Self test and automatic temperature compensation - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, antimasking - Environmental class III (indoor and sheltered outdoor) - ASA casing - White</p>						
Item no. F102TRIREDBUS							

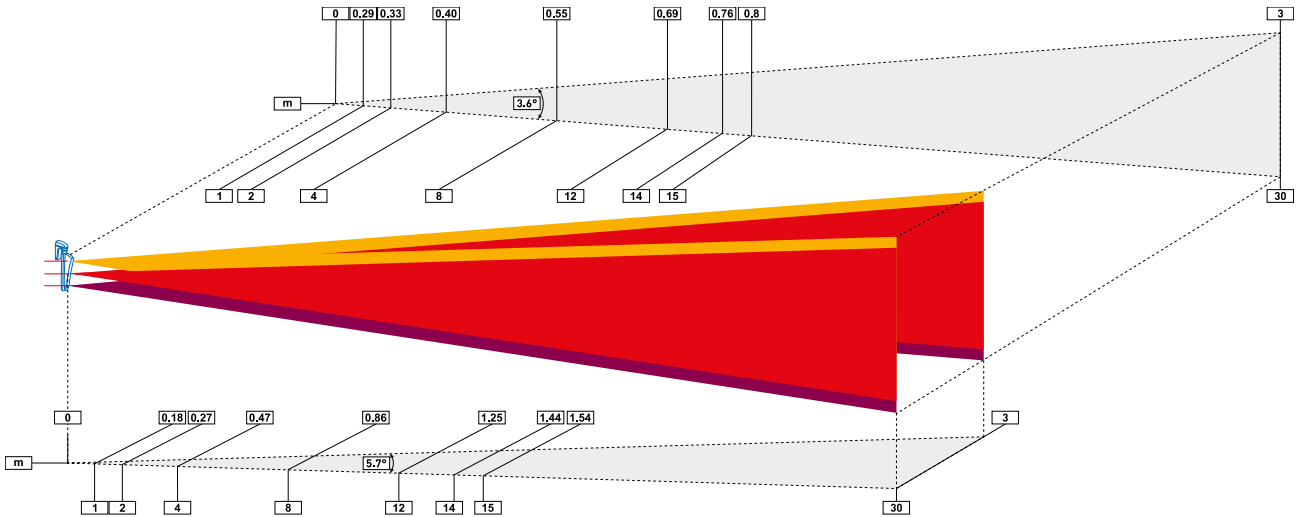
RSC® - Remote Sensitivity Control

TRIRED BUS - Technical and functional specifications








General features	Type	TRIRED BUS	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Connection	Sensor Bus		Antimasking	Programmable
Detection features	Infrared detector	3 dual PIR elements	Test functions	Self test	Automatic
	Infrared beams	3		Electrical specifications	Operating voltage
	Levels (infrared beams)	3	Stand-by consumption		13mA @ 12V DC
	Settings	Pulse count Sensitivity	Max. consumption		20mA @ 12V DC
	Temperature compensation	Automatic	Physical specifications	Environmental class	III
	Coverage	H 5.7°, V 3.6°, 30m range		Protection class	IP55-IK04
	Detection logics	AND (8 settings)		Casing	ASA
	Inhibition of detection	Programmable		Dimensions (L x H x D)	82 x 400 x 260mm
Orientation	H 180° (±90°) V 20° (±10°)	Weight	1.2kg		



Coverage diagrams



Active infrared for outdoor use

WINBEAM/S DOORBEAM/S	     
	<p>Infrared barriers for protection of openings, windows and doors, distinguished by operational flexibility, ease of installation and high resistance to mechanical stress and weather conditions - 16m maximum range - Programmable detection logic - Digital synchronism - Integrated RSC® technology: remote programming and management - Environmental class III (indoor and sheltered outdoor) - Aluminum casing - Elegant and compact design</p> <p>A wide range of colors and heights, also customizable, are available to allow seamless integration in every architectural framework.</p>

WINBEAM/S - DOORBEAM/S - Technical and functional specifications

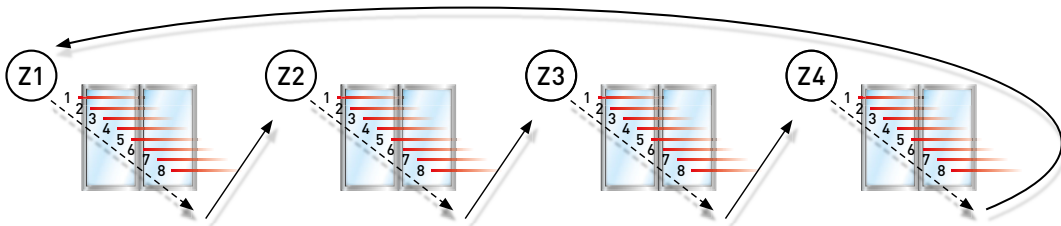
General features	Type	WINBEAM/S DOORBEAM/S	<table border="1"> <tr> <td rowspan="7">Max. consumption</td> <td>WINBEAM/S 60</td> <td>34.5mA @ 12V DC</td> </tr> <tr> <td>WINBEAM/S 80</td> <td>38mA @ 12V DC</td> </tr> <tr> <td>WINBEAM/S 105</td> <td>41.5mA @ 12V DC</td> </tr> <tr> <td>WINBEAM/S 130</td> <td>45mA @ 12V DC</td> </tr> <tr> <td>DOORBEAM/S 155</td> <td>46.5mA @ 12V DC</td> </tr> <tr> <td>DOORBEAM/S 180</td> <td>52mA @ 12V DC</td> </tr> <tr> <td>DOORBEAM/S 205</td> <td>55.5mA @ 12V DC</td> </tr> <tr> <td>Electrical specifications</td> <td>Operating voltage</td> <td>9.5V...14.5V DC</td> </tr> <tr> <td rowspan="5">Physical specifications</td> <td>Environmental class</td> <td>III</td> </tr> <tr> <td>Protection class</td> <td>IP52</td> </tr> <tr> <td>Casing</td> <td>Anodized aluminum</td> </tr> <tr> <td>Dimensions (L x H x D)</td> <td>25 x H x 19mm (for H see table)</td> </tr> <tr> <td>Connection cable</td> <td>6m pre-wired</td> </tr> </table>	Max. consumption	WINBEAM/S 60	34.5mA @ 12V DC	WINBEAM/S 80	38mA @ 12V DC	WINBEAM/S 105	41.5mA @ 12V DC	WINBEAM/S 130	45mA @ 12V DC	DOORBEAM/S 155	46.5mA @ 12V DC	DOORBEAM/S 180	52mA @ 12V DC	DOORBEAM/S 205	55.5mA @ 12V DC	Electrical specifications	Operating voltage	9.5V...14.5V DC	Physical specifications	Environmental class	III	Protection class	IP52	Casing	Anodized aluminum	Dimensions (L x H x D)	25 x H x 19mm (for H see table)	Connection cable	6m pre-wired
	Max. consumption	WINBEAM/S 60			34.5mA @ 12V DC																											
WINBEAM/S 80		38mA @ 12V DC																														
WINBEAM/S 105		41.5mA @ 12V DC																														
WINBEAM/S 130		45mA @ 12V DC																														
DOORBEAM/S 155		46.5mA @ 12V DC																														
DOORBEAM/S 180		52mA @ 12V DC																														
DOORBEAM/S 205		55.5mA @ 12V DC																														
Electrical specifications	Operating voltage	9.5V...14.5V DC																														
Physical specifications	Environmental class	III																														
	Protection class	IP52																														
	Casing	Anodized aluminum																														
	Dimensions (L x H x D)	25 x H x 19mm (for H see table)																														
	Connection cable	6m pre-wired																														
Connection	Zone Bus																															
Detection features	Beam power (range)	Programmable																														
	Response time	Programmable																														
	Detection logic	Programmable (4 settings)																														
	Beams	Singularly excludable																														
	Beam numbering	Reversible																														
	Range	4...16m																														
	WINBEAM/S 60	2 beams																														
	WINBEAM/S 80	3 beams																														
	WINBEAM/S 105	4 beams																														
	WINBEAM/S 130	5 beams																														
	DOORBEAM/S 155	6 beams																														
	DOORBEAM/S 180	7 beams																														
DOORBEAM/S 205	8 beams																															
Synchronization	Digital automatic																															



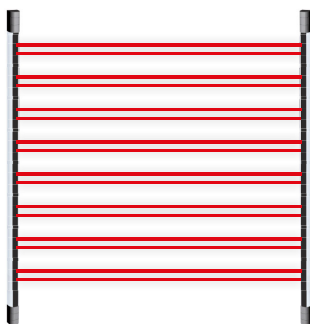
MODEL	ITEM NO. BROWN	ITEM NO. WHITE	ITEM NO. SILVER GRAY	HEIGHT	BEAMS
WINBEAM/S 60	F102WINBS60	F102WINBS60BI	F102WINBS60GR	60cm	2
WINBEAM/S 60T	F102WBS60T	F102WBS60BIT	F102WBS60GRT	56...79cm	2
WINBEAM/S 80	F102WINBS80	F102WINBS80BI	F102WINBS80GR	80cm	3
WINBEAM/S 80T	F102WBS80T	F102WBS80BIT	F102WBS80GRT	81...104cm	3
WINBEAM/S 105	F102WINBS105	F102WINBS105BI	F102WINBS105GR	105cm	4
WINBEAM/S 105T	F102WBS105T	F102WBS105BIT	F102WBS105GRT	106...129cm	4
WINBEAM/S 130	F102WINBS130	F102WINBS130BI	F102WINBS130GR	130cm	5
WINBEAM/S 130T	F102WBS130T	F102WBS130BIT	F102WBS130GRT	131...154cm	5
DOORBEAM/S 155	F102DOORBS155	F102DOORBS155BI	F102DOORBS155GR	155cm	6
DOORBEAM/S 155T	F102DBS155T	F102DBS155BIT	F102DBS155GRT	156...179cm	6
DOORBEAM/S 180	F102DOORBS180	F102DOORBS180BI	F102DOORBS180GR	180cm	7
DOORBEAM/S 180T	F102DBS180T	F102DBS180BIT	F102DBS180GRT	181...204cm	7
DOORBEAM/S 205	F102DOORBS200	F102DOORBS200BI	F102DOORBS200GR	205cm	8
DOORBEAM/S 205T	F102DBS200T	F102DBS200BIT	F102DBS200GRT	206...300cm	8

The barriers can only be connected to the Zone Bus inputs (compatible modules ESP4-20, ESP 4IN, SPEED 4, SPEED 4-140C, SPEED 8, SPEED ALM8 PL, SPEED 4 PLUS, SPEED 4-8 P3A).

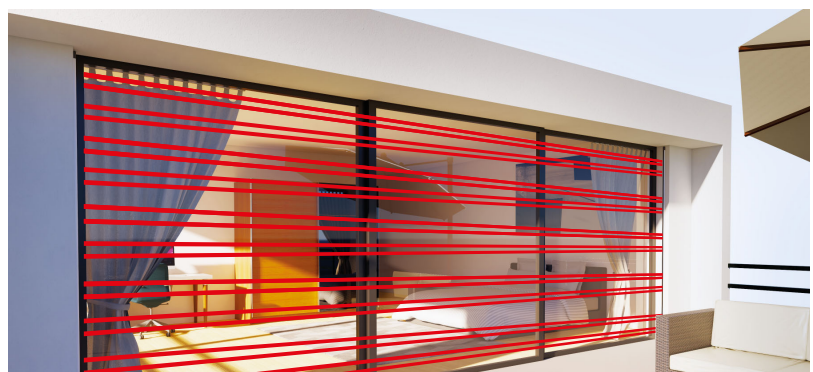
Synchronization



Configuration



Barrier configuration



WINBEAM/S - DOORBEAM/S - Accessories

	20M EXTENSION CABLE
	20m extension cable - Manufacture upon request
	Item no. F102CAV020

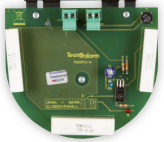

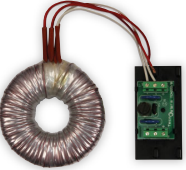





BEAMTOWER		RANGE 150m	SYNC MODE	CLASS IV GENERAL OUTDOOR	IP45
	Infrared barrier for perimeter protection of large outdoor areas - Great installation versatility to create barrier as well as open and closed perimeter configurations - 150m maximum range - Programmable detection logic - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, anti-climb-over - Environmental class IV (outdoor general) - Self-supporting aluminum columns				
	BEAMTOWER/4	BEAMTOWER/4 RX			
	Pair of transmitter and receiver columns - Height 1425mm - 4 beams	Additional receiver column for open perimeter configurations - Height 1425mm			
	Item no. F102BEAMTW/4	Item no. F102BEAMTW/4RX			
	BEAMTOWER/6	BEAMTOWER/6 RX			
	Pair of transmitter and receiver columns - Height 1970mm - 6 beams	Additional receiver column for open perimeter configurations - Height 1970mm			
	Item no. F102BEAMTW/6	Item no. F102BEAMTW/6RX			
	BEAMTOWER/8	BEAMTOWER/8 RX			
	Pair of transmitter and receiver columns - Height 2515mm - 8 beams	Additional receiver column for open perimeter configurations - Height 2515mm			
	Item no. F102BEAMTW/8	Item no. F102BEAMTW/8RX			
BEAMTOWER/8 3M	BEAMTOWER/8 3M RX				
Pair of transmitter and receiver columns - Height 3060mm - 8 beams	Additional receiver column for open perimeter configurations - Height 3060mm				
Item no. F102BEAMTW/83M	Item no. F102BEAMTW/8RX3				

BEAMTOWER - Technical and functional specifications

General features	Type	BEAMTOWER
	Connection	Sensor Bus
Detection features	Beam power (range)	Programmable
	Masking time	Programmable
	Detection logic	Programmable (16 settings)
	Disqualification	Programmable
	Range	150m
	BEAMTOWER/4	4 beams
	BEAMTOWER/6	6 beams
	BEAMTOWER/8	8 beams
	BEAMTOWER/8 3M	8 beams
Orientation	H 180° (± 90°) V 20° (± 10°)	
Synchronization	Digital automatic	
Installation modes	Barrier	1 mode
	Closed perimeter	3 modes
	Open perimeter	6 modes
Anti-tamper protection	Anti-opening	Micro-switch
	Anti-climb-over	Micro-switch
Maximum consumption	BEAMTOWER/4	RX 165mA @ 13V DC TX 197mA @ 13V DC
	BEAMTOWER/6	RX 180mA @ 13V DC TX 243mA @ 13V DC
	BEAMTOWER/8	RX 196mA @ 13V DC TX 288mA @ 13V DC
	BEAMTOWER/8 3M	RX 196mA @ 13V DC TX 288mA @ 13V DC
	Heater (2 pcs)	770mA @ 28V AC
Electrical specifications	Operating voltage	10.5V...14.5V DC
	AC power supply	28V AC
	Battery	12V/7Ah
Physical specifications	Environmental class	IV
	Protection class	IP45 (retrofitable)
	Contentitore	Al + PC
Dimensions (L x H x D)	BEAMTOWER/4	153 x 1425 x 178mm
	BEAMTOWER/6	153 x 1970 x 178mm
	BEAMTOWER/8	153 x 2515 x 178mm
	BEAMTOWER/8 3M	153 x 3060 x 178mm
	Fastening base	400 x 23 x 400mm



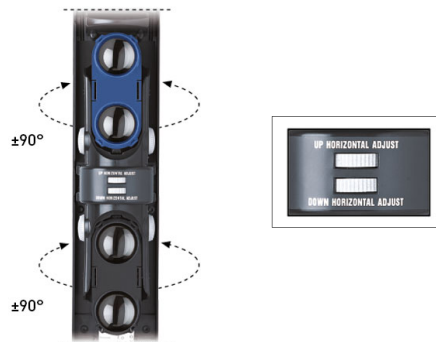
BEAMTOWER - Accessories

	<p>HEATER</p> <p>Thermostatic heater module for BEAMTOWER</p> <p>Item no. F102BERISC</p>		<p>TA16/2 TRANSFORMER KIT</p> <p>220/28V AC 60VA transformer kit for BEAMTOWER and heater modules</p> <p>Item no. C126TRASTA16/2</p>
	<p>TA/BT TRANSFORMER KIT</p> <p>220/28V AC 150VA transformer kit for BEAMTOWER and heater modules to be used for areas with extreme climates</p> <p>Item no. C126TRASTA/BT</p>		<p>FASTENING BASE</p> <p>Fastening base for floor mounting of BEAMTOWER - Steel with cataphoresis treatment - Black - Dimensions (L x H x D) 400 x 23 x 400mm</p> <p>Item no. F102BESTAFFA</p>
	<p>ALIGNMENT KIT</p> <p>Suitcase with optical viewfinder and shutters for DUALBEAM WL, QUADBEAM and BEAMTOWER</p> <p>Item no. F102KITMIRINO</p>		<p>SHUTTERS</p> <p>Lens shutters for DUALBEAM WL, QUADBEAM and BEAMTOWER (sold in packs of 10)</p> <p>Item no. F102KITATTENUA</p>
	<p>CONVERTER</p> <p>Converter for the 2km extension of the serial bus with fiber optic cables</p> <p>Item no. F130CONVFIBRA</p>		<p>MONITOR 868</p> <p>Wireless receiver for alignment of DUALBEAM WL, QUADBEAM, BEAMTOWER and EXPLORER BUS</p> <p>Item no. F102MONITOR868</p>



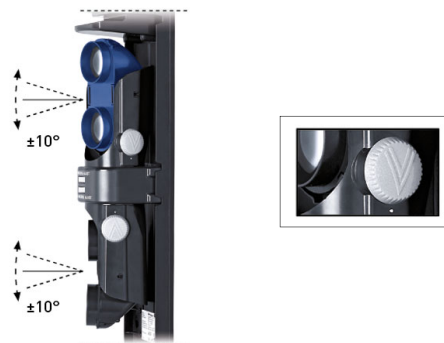
MODBEAM modules

The MODBEAM lens modules are divided into transmitter and receiver modules. The transmitter module emits 2 beams, each of them composed of two parallel rays. The interruption of one beam is only validated if both of its rays are cut: a technique which increases significantly the immunity against false alarms. The beams can be programmed independently, each with a different interruption time, one of the parameters, along with the number and the position of the interrupted beams, which compose the detection logic.



Orientation

The lenses of the MODBEAM modules can be turned individually on the horizontal and vertical axis. The alignment of the beams is made with the help of two precision control knobs permitting an adjustment with millimetric accuracy. The +/-90° horizontal orientation of the beams permits the installation of the column in perimeter configurations with 180 degrees orientation of the beams. The +/-10° vertical orientation of the beams permits the compensation of differences of levels if the columns are installed on craggy ground. According to the distance, the compensation varies from 1.7 to 10.5 meters.



Heater modules

Each column can be equipped, depending on the model, with a maximum of two heater modules in order to compensate the internal temperature of the column in areas where the temperature can be very cold (anti-freeze protection). The thermostatic control of the heaters is guaranteed by the controller.



Anti-climb-over protection

The tilting top cap of the column contains the electronic board with the anti-opening and anti-climb-over switches. A climb-over attempt is detected as soon as the top cap springs back under the weight of an intruder.



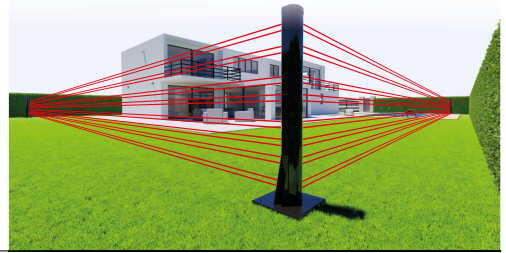
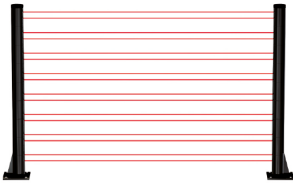
Controller

The controller is the centerpiece of the column and all its electronic components are connected to it. The controller of the receiver column is connected to the control panel or the input module and, for synchronization, to the corresponding controller of the transmitter column. The connections between the columns and the control panel are made through two different RS485 serial buses.

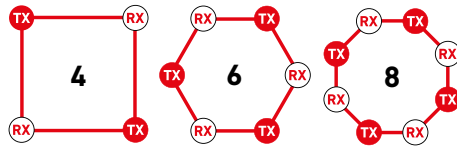
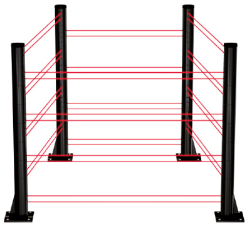


Configurations

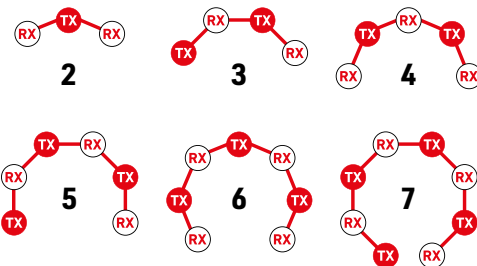
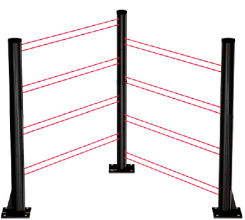
Barrier configuration








Open perimeter configuration



Closed perimeter configuration



Microwave for outdoor use

	EXPLORER BUS	   
	<p>Microwave barrier for perimeter protection of high-risk areas in the outdoors, such as great industrial plants, solar parks, warehouses and airports - High resistance to bad weather conditions, light and RFI/EMI interference - 60m, 120m, 220m maximum range (according to model) - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/anti-twist, antimasking - Environmental class IV (outdoor general)</p>	
	EXPLORER BUS 600	
	Item no. F102EXPBUS600 - Pair of transmitter and receiver columns - 60m range	
	EXPLORER BUS 1200	
	Item no. F102EXPBUS1200 - Pair of transmitter and receiver columns - 120m range	
EXPLORER BUS 2200		
Item no. F102EXPBUS2200 - Pair of transmitter and receiver columns - 220m range		

RSC® - Remote Sensitivity Control

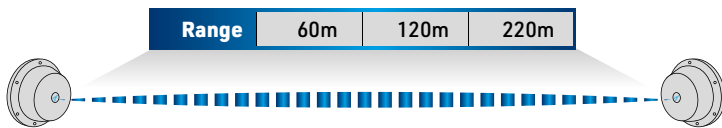
EXPLORER BUS - Technical and functional specifications

General features	Type	EXPLORER BUS	Electrical specifications AC	Rated voltage	18V AC
	Connection	Sensor Bus		Max. consumption	360mA @ 18V AC
Detection features	EXPLORER BUS 600	60m range	Electrical specifications DC	Operating voltage	9V...15V DC
	EXPLORER BUS 1200	120m range		Max. consumption	160mA @ 13.8V DC
	EXPLORER BUS 2200	220m range		Battery	12V/2Ah
	Microwave frequency	10.525GHz		Current available for battery recharge	240mA
	Transmission power	≤500mW	Physical specifications	Environmental class	IV
Settings	Response time Sensitivity Transmission channel	Protection class		IP65	
Anti-tamper protection	Anti-opening	Micro-switch		Casing	Al + ASA
	Anti-twist	Mechanical		Dimensions (Ø x H)	310 x 239.5mm
	Antimasking	Programmable	Weight	5.2kg	
Test functions	Failure signaling	Excludable			
	Supervision	Excludable			

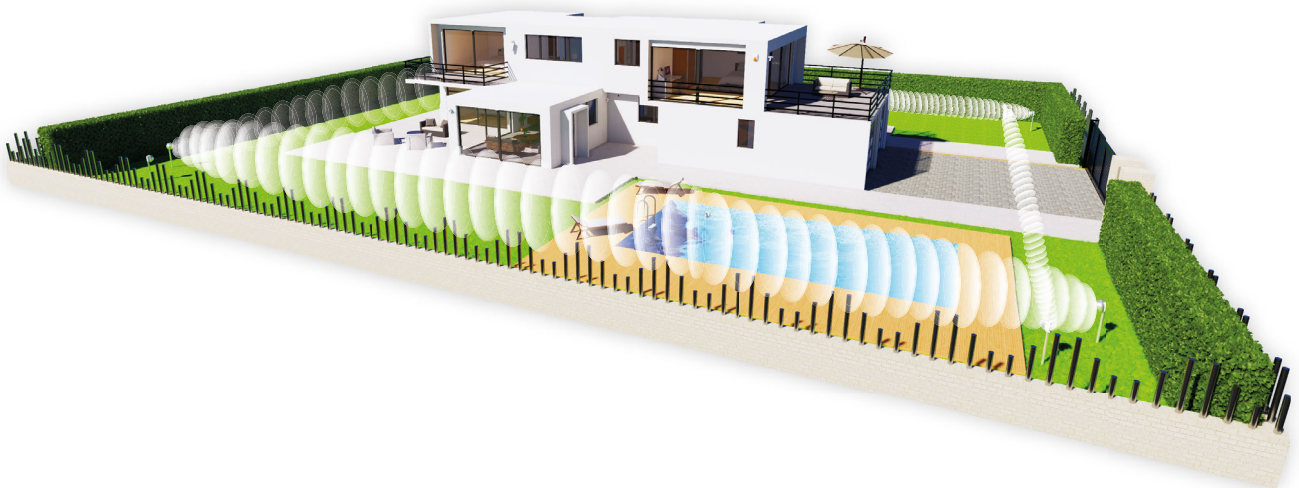


Configurations

Perimeter configuration



4-sides perimeter



RSC® - Remote Sensitivity Control

	<p>POST</p> <p>Mounting post for EXPLORER II and EXPLORER BUS - Zinc-coated - Dimensions (Ø x H) 60 x 1500mm</p> <p>Item no. F102PALI</p>		<p>TA1/N3 TRANSFORMER KIT</p> <p>220/18V AC 60VA transformer kit for QUADBEAM, EXPLORER II and EXPLORER BUS</p> <p>Item no. F102TRASFBARR.</p>
	<p>MOUNTING BRACKET</p> <p>L-shaped wall mounting bracket for EXPLORER II and EXPLORER BUS - Zinc-coated - Outreach 220mm or 420mm</p> <p>Item no. F102STAFFAEXPL - 220mm</p> <p>Item no. F102STAFFAEX42 - 420mm</p>		<p>MONITOR 868</p> <p>Wireless receiver for alignment of DUALBEAM WL, QUADBEAM, BEAMTOWER and EXPLORER BUS</p> <p>Item no. F102MONITOR868</p>

BUS SIRENS

INDOOR

DESIGN BY

pininfarina

PROGRAM ASSOCIATION

ASSOCIATE PROGRAMS

1	2	3	4	5	6
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

OPERATING MODE

SELECT

Indoor siren
Outdoor siren



ALARM

SELECT

Not active
Sounding

SOUND TYPE

SELECT

Bidirectional
Unidirectional
Bi-tone

TECHNICAL ALARM

SELECT

Not active
Sounding

SOUND TYPE

SELECT

Bidirectional
Unidirectional
Bi-tone

PREALARM

SELECT

Not active
Sounding

SIGNALING

SELECT

Not active
Sounding

SOUND LEVEL

SELECT

High
Medium high
Medium low
Low

CHIME

SELECT

Not active
Sounding

BUS SIRENS

OUTDOOR

DESIGN BY

pininfarina

PROGRAM ASSOCIATION

ASSOCIATE PROGRAMS

1	2	3	4	5	6
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

OPERATING MODE

SELECT

Indoor siren
Outdoor siren

ANTIDRILLING PROTECTION

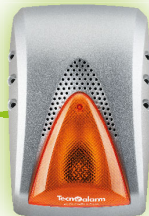
Enable or disable

ANTIFOAM PROTECTION

Enable or disable

SYSTEM STATUS SIGNALING

Enable or disable



ALARM

SELECT

Not active
Sounding
Flashing light
Sounding + Flashing light

SOUND TYPE

SELECT

Bidirectional
Unidirectional
Bi-tone

POST ALARM BLINKING

SELECT

Disabled
1 to 15 minutes

TECHNICAL ALARM

SELECT

Not active
Sounding
Flashing light
Sounding + Flashing light

SOUND TYPE

SELECT

Bidirectional
Unidirectional
Bi-tone

PREALARM

SELECT

Not active
Sounding
Flashing light
Sounding + Flashing light

SIGNALING

SELECT

Not active
Sounding
Flashing light
Sounding + Flashing light

SOUND LEVEL

SELECT

High
Medium high
Medium low
Low

CHIME

SELECT

Not active
Sounding
Flashing light
Sounding + Flashing light



Bus sirens for indoor use


SIRTEC BUS	
	<p>Self-powered magneto-dynamic siren - Sound level 117dB(A) @ 1m - Numerous programming options for diversification of signaling according to the event - Free program association - Signaling for arming/disarming of the system - Self test function and failure signaling for: power supply, battery or horn failure - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment - Environmental class II (indoor general) - ABS casing - Design by Pininfarina - EN 50131-4 certification security grade 3</p>
	Item no. F105SIRTECBUS (white)
	Item no. F105SIRTECBUSGR (silver gray)

SIRTEC BUS - Technical and functional specifications

General features	Type	SIRTEC BUS
	Connection	Siren Bus
Acoustic features	Sound level on main axis	117dB(A) @ 1m
	Frequency	2400Hz...3500Hz
Settings	Program association	✓
	Operating mode	Indoor Outdoor
	Volume	4 settings
	Sound type	3 settings
	Signaling mode	Prealarm Alarm Technical alarm Arming/disarming Chime
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
Test functions	Self test	Automatic

Electrical specifications	Operating voltage	10.5V...14.5V DC
	Stand-by consumption	8mA @13V DC
	Max. consumption	1.8A @ 13V DC
	Battery	12V/2Ah
Physical specifications	Environmental class	II
	Protection class	IP41-IPK07
	Casing	ABS
	Dimensions (L x H x D)	290 x 95 x 70mm
	Weight (w/o battery)	780g
Conformity	Standards	EN 50131-4
	Security grade	3
	Notified body	IMQ

Bus sirens for outdoor use

SAEL 2010 BUS		SOUND LEVEL 103 dB(A) @1m	SELF POWERED	SOUND TYPE SETTING	ANTI-FOAM PROTECTION	SELF TEST	SECURITY GRADE 3	CLASS IIIA SHELTERED OUTDOOR	IP44
 <p>EN 50131</p> <p>INCERT</p>	<p>Self-powered magneto-dynamic siren - Sound level 103dB(A) @ 1m - LED flashlight - Numerous programming options for diversification of optical and/or acoustic signaling according to the event - Free program association - Signaling for system status and arming/disarming of the system - Self test function and failure signaling for: power supply, battery, flashlight or horn failure - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, antifoam - Environmental class IIIA (indoor and sheltered outdoor) - Design by Pininfarina - EN 50131-4 certification security grade 3</p>								
	Item no. F105S2010BUSBI - Casing: ABS base, white ASA cover								
	Item no. F105S2010BUSGR - Casing: ABS base, silver gray ASA cover								
	Item no. F105S2010BUSAL - Casing: ABS base, varnished aluminum cover								
	Item no. F105S2010BUSCR - Casing: ABS base, chrome-plated aluminum cover								

SAEL 2010 BUS - Technical and functional specifications

General features	Type	SAEL 2010 BUS	Test functions	Self test	Automatic
	Connection	Siren Bus		Electrical specifications	Operating voltage
Optical-acoustic features	Sound level on main axis	103dB(A) @ 1m	Stand-by consumption		12mA @ 13V DC
	Frequency	1400Hz...3600Hz	Consumption during status signaling		70mA @ 13V DC
	Flashlight	LED	Max. consumption		1.8A @ 13V DC
Settings	Program association	✓	Battery		12V/2Ah
	Operating mode	Indoor Outdoor	Physical specifications	Environmental class	IIIA
	Volume	4 settings		Protection class	IP44-IPK08
	Sound type	3 settings		Casing	ASA / Al
	Signaling mode	Prealarm Alarm Technical alarm Arming/disarming System status Chime		Dimensions (L x H x D)	211 x 315 x 98mm
Weight (w/o battery)					2kg ASA - 2.7kg Al
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch	Conformity	Standards	EN 50131-4
	Antifoam	✓		Security grade	3
				Notified body	IMQ

OUTDOOR

SAEL 2010PRO BUS										
	<p>Self-powered magneto-dynamic siren with a complete anti-tamper equipment: anti-opening/antidetachment, antifoam and anti-drilling - Sound level 103dB(A) @ 1m - LED flashlight - Numerous programming options for diversification of optical and/or acoustic signaling according to the event - Free program association - Signaling for system status and arming/disarming of the system - Self test function and failure signaling for: power supply, battery, flashlight or horn failure - Integrated RSC® technology: remote programming and management - Environmental class IIIA (indoor and sheltered outdoor) - Design by Pininfarina - EN 50131-4 certification security grade 4</p>									
	Item no. F105S2010PBUSAL - Casing: ABS base, varnished aluminum cover									
	Item no. F105S2010PBUSCR - Casing: ABS base, chrome-plated aluminum cover									

SAEL 2010PRO BUS - Technical and functional specifications

General features	Type	SAEL 2010PRO BUS	Test functions	Self test	Automatic
	Connection	Siren Bus	Electrical specifications	Operating voltage	10.5V...14.5V DC
Optical-acoustic features	Sound level on main axis	103dB(A) @ 1m		Stand-by consumption	12mA @ 13V DC
	Frequency	1400Hz...3600Hz		Consumption during status signaling	70mA @ 13V DC
	Flashlight	LED		Max. consumption	1.8A @ 13V DC
Settings	Program association	✓		Battery	12V/2Ah
	Operating mode	Indoor Outdoor	Physical specifications	Environmental class	IIIA
	Volume	4 settings		Protection class	IP44-IPK08
	Sound type	3 settings		Casing	Al
Signaling mode	Prealarm Alarm Technical alarm Arming/disarming System status Chime			Dimensions (L x H x D)	211 x 315 x 98mm
				Weight (w/o battery)	3.1kg
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch	Conformity	Standards	EN 50131-4
	Antifoam	✓		Security grade	4
	Antidrilling	✓		Notified body	IMQ

RSC® - Remote Sensitivity Control



ASYN@WL wireless products






The implementation of the wireless devices using the ASYN@WL protocol is made through the receiver RX330.

The receiver is connected to the system via the serial bus thus permitting the installation in a place with good signal power.

The ASYN@WL protocol offers an adequate level of security and with the control and supervision by the Tecnoalarm alarm system makes the products suitable for use in medium-high security applications.

INDOOR





Receivers

RX330					
	<p>Wireless receiver module - Highly sensitive UHF receiver - 433/868MHz frequency bands - OOK modulation - ASYNC@WL protocol - Number of managed devices depends on system - RS485 connection - Programmable baud rate - Anti-tamper protection: anti-opening/antidetachment, antijamming - Environmental class II (indoor general) - ABS casing - Design by Pininfarina - White</p>				
	Item no. F102RX330				

RX330 - Technical and functional specifications

General features	Type	RX330	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Connection	Serial Bus RS485		Serial bus sabotage	✓
RF specifications	Communication protocol	ASYNC@WL	Physical specifications	Antijamming	✓
	Receiver	UHF		Environmental class	II
	Frequency band	433/868MHz		Protection class	IP3x
	Modulation	OOK		Casing	ABS
Electrical specifications	Operating voltage	10V...14.5V DC	Dimensions (L x H x D)	270 x 156 x 68mm	
	Consumption	42mA @ 12V DC	Weight	550g	








Control units

TX240-3				
	<p>Wireless key - 868MHz frequency band - ASYNC@WL protocol - 3 function keys - Function programmable: program and/or remote-control management, panic alarm - Programmable attributes - Lithium battery included - Design by Pininfarina</p>			
	TX240-3/868	Item no. F102TX240-3/868		

TX240-3 - Technical and functional specifications

General features	Type	TX240-3/868	Programmable functions	Program management	✓
	User interface	Function keys		3	Remote control management
Signal LED		1		Operational attributes	✓
RF specifications	Communication protocol	ASYNC@WL	Electrical specifications	Battery	CR2032 - 3V
	Transmitter	UHF		Battery life	> 1 year
	Frequency band	868MHz	Physical specifications	Casing	ABS
	Modulation	OOK		Dimensions (L x H x D)	65 x 40 x 15.5mm
		Weight	46g		

Passive infrared for indoor use

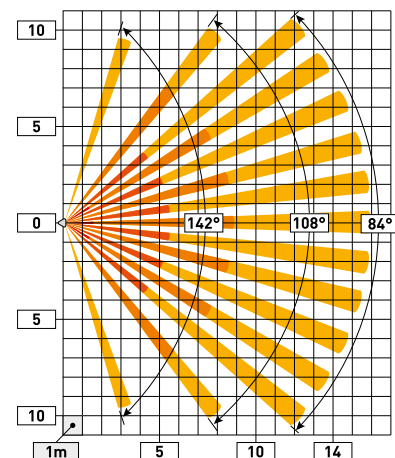
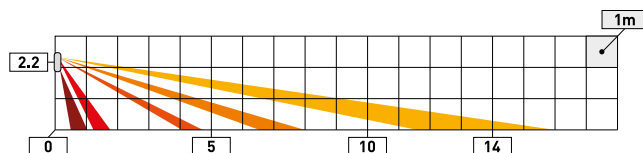
	     	
	Wireless passive infrared detector - 433/868MHz frequency bands - ASYN@WL protocol - Volumetric protection: 29 infrared beams, 4 levels, 108° coverage, 14m maximum range - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Environmental class II (indoor general) - ABS casing - Design by Pininfarina - White	
	TWINBAND WL/V	Item no. F102TWINBAND/V (wide angle)
	TWINBAND WL/C	Item no. F102TWINBAND/C (long range)
	TWINBAND WL/T	Item no. F102TWINBAND/T (curtain)
TWINBAND WL/PET	Item no. F102TWINBAND/PE (pet-immunity)	

TWINBAND WL - Technical and functional specifications

General features	Type	TWINBAND WL
Detection features	Infrared detector	Dual PIR element
	Infrared beams	29
	Levels (infrared beams)	4
	Coverage	108°, 14m range
	Settings	Pulse count
RF specifications	Communication protocol	ASYN@WL
	Receiver-transmitter	UHF
	Frequency band	433/868MHz
	Modulation	OOK

Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Supervision	✓
Electrical specifications	Battery	Li-SOCl2 - 3.6V
	Battery life	> 4 years
Physical specifications	Environmental class	II
	Protection class	IP4x-IK04
	Casing	ABS
	Dimensions (L x H x D)	68 x 118 x 51mm
Weight	126g	

Coverage diagrams
TWINBAND WL/V



TWINBAND WL - Accessories



SNODO 2000

Swivel mounting bracket with H ±45°, V -15° orientation - Surface mounting - Anti-tamper protection: anti-opening/antidetachment

Item no. F102SNODO2000



DRED500 BWL							
	<p>Wireless detector for protection of openings, windows and doors - 868MHz frequency band - ASYN@WL and SYNC@BWL protocols - 2 independent detection units (dual ID): dual PIR element (ID1), internal contact and/or input for external device (ID2) - Volumetric protection: 10 infrared beams, 2 levels, coverage 76° on the horizontal, 3° on the vertical plane, 2.5m maximum range - The detection units can be associated to 1 zone with AND/OR detection logic or to 2 zones - Self test and automatic temperature compensation - External device: magnetic contact, rope contact or vibration detector - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Environmental class II (indoor general) - ASA casing - Elegant and compact design</p>						
Item no. F102DRED500BWL (white)							
Item no. F102DRED500BWL (brown)							

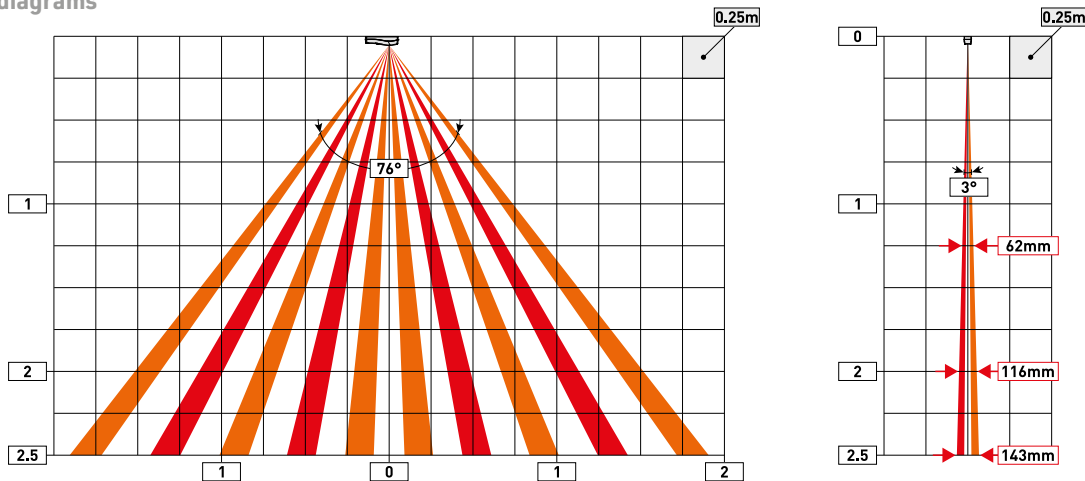
DRED500 BWL - Technical and functional specifications

General features	Type	DRED500 BWL
	Zones occupied	2 (ID1 + ID2)
Detection features ID1 - IR	Infrared detector	2 dual PIR elements
	Infrared beams	10
	Levels (infrared beams)	2
	Coverage	H 76°, V 3°, 2.5m range
	Detection logic	AND
	Settings	Pulse count
	Temperature compensation	Automatic
Detection features ID2 - Contact	Reed	Excludable
	Input for external device	Magnetic contact Rope contact Vibration detector
	Filter	Programmable
Operating mode	Combined (OR detection logic)	Occupies 1 zone
	Independent	Occupies 2 zones










RF characteristics	Communication protocol	SYNC@BWL ASYN@WL
	Receiver-transmitter	UHF
	Frequency band	868MHz
	Modulation	OOK
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Supervision	✓
Test functions	Self test	Automatic
Electrical specifications	Battery	Li-SOCI2 - 3.6V
	Battery life	> 3 years
Physical specifications	Environmental class	II
	Protection class	IP4x-IK04
	Casing	ASA
	Dimensions (L x H x D)	168 x 46 x 30mm
	Weight	160g

ASYN@WL

Coverage diagrams



Passive infrared for outdoor use

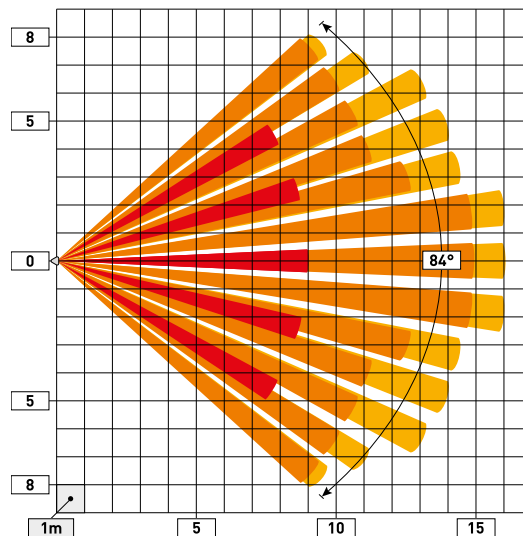
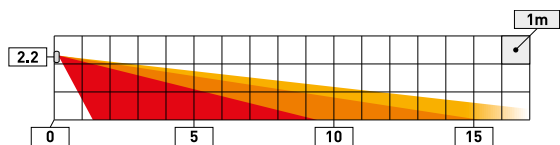
GLOB500 BWL									
	<p>Wireless passive infrared detector for protection of sheltered outdoor areas close to the building, gardens and terraces - 433/868MHz frequency bands - ASYN@WL and SYNC@BWL protocols - High-density volumetric protection with multi-point technology: 43 infrared beams, 5 levels, 15m maximum range - Coverage adjustable with lens shutter - AND/OR detection logic - Self test and automatic temperature compensation - Great versatility of installation thanks to a comprehensive range of accessories - Anti-tamper protection: anti-opening/antidetachment, antimasking, supervision - Lithium battery included - Environmental class III (indoor and sheltered outdoor) - ASA casing - White</p>								
Item no. F102GLOB500BWL									

GLOB500 BWL - Technical and functional specifications

General features	Type	GLOB500 BWL	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
Detection features	Infrared detector	3 dual PIR elements	Test functions	Antimasking	Programmable
	Infrared beams	43		Supervision	✓
	Levels (infrared beams)	5		Electrical specifications	Self test
	Coverage	84° (adjustable), 15m range	Battery	Battery life	Li 3.6V/7.8Ah
	Coverage adjustment	Lens shutter	Physical specifications	Environmental class	> 2 years
	Detection logic	OR AND		Protection class	III
	Settings	Pulse count	Casing	IP44-1K04	
	Temperature compensation	Automatic	Dimensions (L x H x D)	ASA	
RF characteristics	Communication protocol	SYNC@BWL ASYN@WL	Weight	76 x 192 x 83mm	
	Receiver-transmitter	UHF		420g	
	Frequency band	433/868MHz			
	Modulation	OOK			



Coverage diagrams












ASYN@WL

GLOB500 BWL - Accessories

	<p>CORNER MOUNTING BRACKET</p> <p>Corner mounting bracket for wall mounting with 22.5° or 45° angle - ASA - White</p>
	<p>Item no. F102STAFFAGLOB</p>

	<p>RAIN COVER</p> <p>Rain cover for protection against bad weather and sunlight - ASA - White - Dimensions (L x H x D) 136 x 58 x 162mm</p>
	<p>Item no. F102GLOCALOTTA</p>

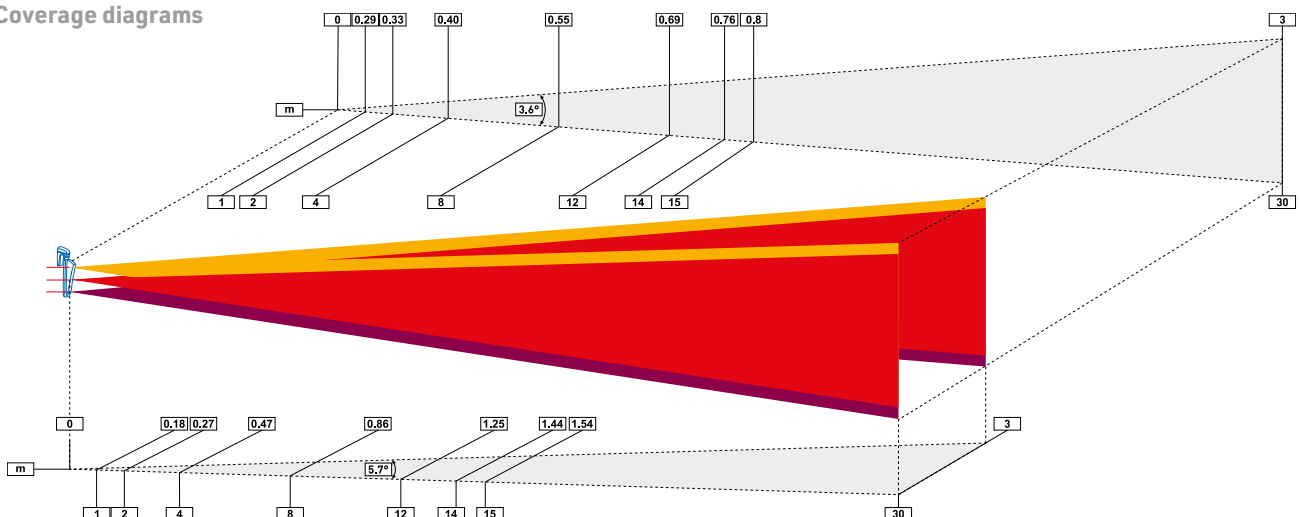
	<p>SNODO GLOBAL SPACE</p> <p>Swivel mounting bracket with H±90°, V±10° orientation - Surface mounting - Anti-tamper protection: antidetachment</p>
	<p>Item no. F102SNODOGLOB</p>

TRIRED WL								
	<p>Wireless infrared detector for protection of sheltered outdoor areas close to the building, balconies and terraces - 433/868MHz frequency bands - ASYN@WL protocol - Volumetric protection: 3 infrared beams with curtain lenses, 3 levels, coverage 5.7° on the horizontal, 3.6° on the vertical plane, 15m or 30m maximum range - Integrated swivel mounting bracket with ample opportunities for orientation - AND detection logic - Automatic temperature compensation - Anti-tamper protection: anti-opening/antidetachment, antimasking, supervision - Environmental class III (indoor and sheltered outdoor) - ASA casing - White</p>							
	TRIRED WL	Item no. F102TRIREDWL - 30m range						
	TRIRED WL/15	Item no. F102TRIREDWL15 - 15m range						

TRIRED WL - Technical and functional specifications






General features	Type	TRIRED WL	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
Detection features	Infrared detector	3 dual PIR elements	Antimasking		Programmable
	Infrared beams	3	Supervision		✓
	Levels (infrared beams)	3	Electrical specifications	Battery	Li 3.6V/13Ah
	Temperature compensation	Automatic	Battery life		> 3 years
	Coverage	H 5.7°, V 3.6°, 30m range	Physical specifications	Environmental class	III
	Detection logic	AND (3 settings)		Protection class	IP55-IK04
	Orientation	H 180° (±90°) V 20° (±10°)		Casing	ASA
Communication protocol	ASYN@WL	Dimensions (L x H x D)		82 x 400 x 260mm	
RF characteristics	Receiver-transmitter	UHF	Weight	1.2kg	
	Frequency band	433/868MHz			
	Modulation	OOK			

Coverage diagrams



INDOOR










Magnetic contacts

TX310						
	<p>Wireless magnetic contact for protection of openings, windows and doors - 433/868MHz frequency bands - ASYNC@WL protocol - 2 independent detection units (dual ID): internal dual reed contact and/or input for external device (ID1), input for external device (ID2) - External device: magnetic contact, rope contact or vibration detector - The detection units can be associated to 1 zone with OR detection logic or to 2 zones - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Environmental class II (indoor general) - ABS casing - Design by Pininfarina</p>					
	TX310	Item no. F102TX310 (white)				
	TX310/M	Item no. F102TX310/M (brown)				

TX310 - Technical and functional specifications

General features	Type	TX310	Operating mode	Combined (OR detection logic)	Occupies 1 zone
	Zones occupied	2 (ID1 + ID2)		Independent	Occupies 2 zones
Detection features ID1 - Reed/contact	Reed	Excludable	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Input for external device	Magnetic contact		Supervision	✓
	Filter	Programmable	Electrical specifications	Battery	Li-SOCl2 - 3.6V
Detection features ID2 - Contact	Input for external device	Magnetic contact Rope contact Vibration detector		Battery life	> 4 years
	Filter	Programmable	Physical specifications	Environmental class	II
RF characteristics	Communication protocol	ASYNC@WL		Protection class	IP3x-IK02
	Receiver-transmitter	UHF		Casing	ABS
	Frequency band	433/868MHz		Dimensions (L x H x D)	114.5 x 38.5 x 30mm
	Modulation	OOK	Weight	100g	

Active infrared for outdoor use

	DUALBEAM WL								
	<p>Wireless active infrared barrier - 433/868MHz frequency bands - ASYN@WL protocol - 2 infrared beams - 80m maximum range - Lithium batteries included - Wall or post mounting with optional brackets - Environmental class III (indoor and sheltered outdoor) - PC Makrolon casing - Black</p> <p>Item no. F102DUALBEAMWL (while stock lasts)</p>								

DUALBEAM WL - Technical and functional specifications







General features	Type	DUALBEAM WL	Anti-tamper protection	Anti-opening	Micro-switch
Detection features	Infrared beams	2	Supervision	Battery	Li 3.6V/13Ah
	Beam power	Programmable (4 settings)			Battery life
	Coverage	80m range	Physical specifications	Environmental class	III
	Response time	Programmable		Protection class	IP45
	Disqualification	Programmable		Casing	PC Makrolon
	Synchronization	Digital automatic		Dimensions (L x H x D)	102 x 436 x 106mm
Orientation	H 180° (±90°) V 20° (±10°)	Weight	3.6Kg		
RF characteristics	Communication protocol	ASYN@WL			
	Receiver-transmitter	UHF			
	Frequency band	433/868MHz			
	Modulation	OOK			

DUALBEAM WL - Accessories

	POST		MOUNTING KIT
	<p>Mounting post for DUALBEAM WL and QUADBEAM - Zinc-coated - Dimensions (Ø x H) 50 x 1500mm</p> <p>Item no. F102PALOBEAM</p>		<p>Post mounting kit for DUALBEAM WL and QUADBEAM (kit for one pair of transmitter and receiver)</p> <p>Item no. F102KITPALOBEAM</p>
	MONITOR 868		SHUTTERS
	<p>Wireless receiver for alignment of DUALBEAM WL, QUADBEAM, BEAMTOWER and EXPLORER BUS</p> <p>Item no. F102MONITOR868</p>		<p>Shutters for DUALBEAM WL, QUADBEAM and BEAMTOWER (sold in packs of 10)</p> <p>Item no. F102KITATTENUA</p>
			ALIGNMENT KIT
			<p>Suitcase with optical viewfinder and shutters for DUALBEAM WL, QUADBEAM and BEAMTOWER</p> <p>Item no. F102KITMIRINO</p>



Optical smoke detectors

SMOKY	    
	<p>Wireless optical smoke detector - Tyndall effect - 433/868MHz frequency bands - ASYN@WL protocol - Sensitivity programmable on 3 levels - Electrical test function - Lithium battery included - Surface ceiling mount - Environmental class II (indoor general) - ABS casing - White</p> <p>Item no. F102SMOKY</p>

SMOKY - Technical and functional specifications

General features	Type	SMOKY
Detection features	Smoke detector	Tyndall effect
	Sensitivity	Programmable
	Range	5m
RF characteristics	Communication protocol	ASYN@WL
	Transmitter	UHF
	Frequency band	433/868MHz
	Modulation	OOK

Anti-tamper protection	Supervision	✓
Electrical specifications	Battery	Li-SOCl2 - 3.6V
	Battery life	> 3 years
Physical specifications	Environmental class	II
	Protection class	IP22-IK02
	Casing	ABS
	Dimensions (Ø x H)	100 x 55mm
	Weight	115g




Detectors

For indoor use - For outdoor use

Tecnoalarm's great know-how, over the years, has allowed to propose to the market a wide range of detectors, offering the best solution for every type of protection, from small apartments up to the most complex protections of large outdoor areas.



Passive infrared for indoor use

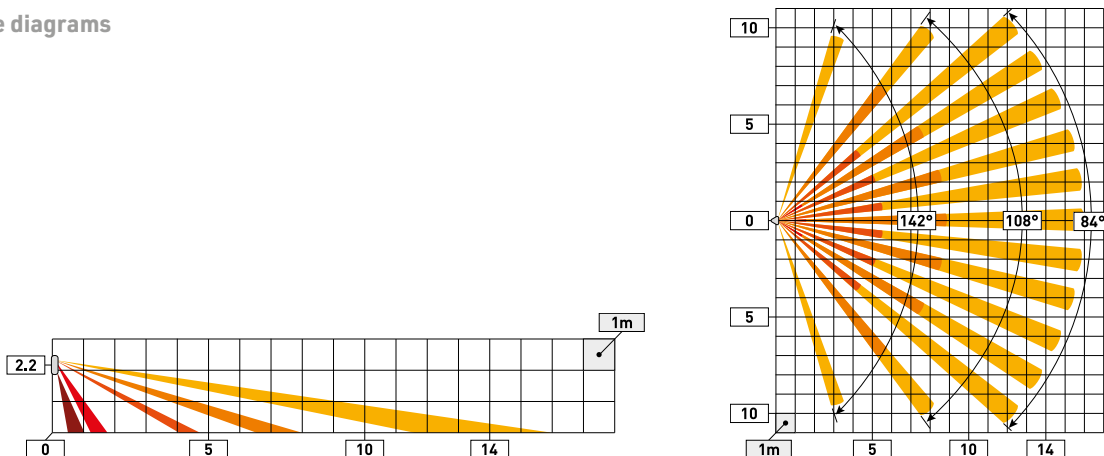
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; text-align: center;"> WIDE ANGLE <small>COVERAGE</small> <small>14m H108°</small> </div> <div style="border: 1px solid black; padding: 2px; text-align: center;"> LONG RANGE <small>COVERAGE</small> <small>22m H28°</small> </div> <div style="border: 1px solid black; padding: 2px; text-align: center;"> CURTAIN <small>COVERAGE</small> <small>15m V62° H5.6°</small> </div> <div style="border: 1px solid black; padding: 2px; text-align: center;"> PET IMMUNE <small>COVERAGE</small> <small>17m H88°</small> </div> <div style="border: 1px solid black; padding: 2px; text-align: center;"> ANTI-MASK </div> <div style="border: 1px solid black; padding: 2px; text-align: center;"> <small>TEMPERATURE COMPENSATION</small> </div> <div style="border: 1px solid black; padding: 2px; text-align: center;"> CLASS II <small>GENERAL INDOOR</small> </div> </div>	
	Passive infrared detectors - Available with wide-angle, long-range, curtain and pet-immune wide-angle lens - Coverage depending on the model - Anti-tamper protection: anti-opening/antidetachment, antimasking (INFROTEK MASK only) - Environmental class II (indoor general) - ABS casing - Design by Pininfarina - White	
	INFROTEK/V	Item no. F102INFROTEK/V (wide angle)
	INFROTEK/C	Item no. F102INFROTEK/C (long range)
	INFROTEK/T	Item no. F102INFROTEK/T (curtain)
	INFROTEK/PET	Item no. F102INFROTEK/PE (pet-immunity)
INFROTEK MASK	Item no. F102INFROTEK/VM (wide angle)	

INFROTEK - INFROTEK MASK - Technical and functional specifications


General features	Type	INFROTEK INFROTEK MASK
Detection features	Infrared detector	Dual PIR element
	Infrared beams	29
	Levels (infrared beams)	4
	Coverage	108°, 14m range
	Settings	Sensitivity
Inputs	Inhibition of detection	Stand-by
	Temperature compensation	Automatic
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Antimasking*	Programmable









Electrical specifications	Operating voltage	10.5V...14.5V DC
	Consumption INFROTEK	Stand-by 5mA @ 12V DC Max. 10mA @ 12V DC
	Consumption INFROTEK MASK	Stand-by 15mA @ 12V DC Max. 22mA @ 12V DC
Physical specifications	Environmental class	II
	Protection class	IP4x-IK04
	Casing	ABS
	Dimensions (L x H x D)	68 x 118 x 51mm
	Weight	150g
* Only available with INFROTEK MASK		

Coverage diagrams



INFROTEK - INFROTEK MASK - Accessories

	SNODO 2000
	Swivel mounting bracket with H ±45°, V -15° orientation - Surface mounting - Anti-tamper protection: anti-opening/antidetachment
	Item no. F102SNODO2000

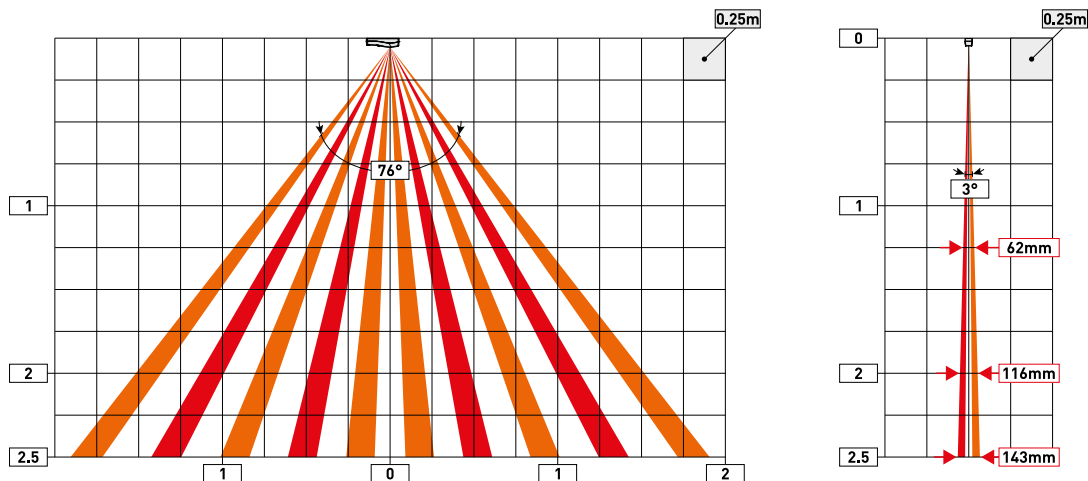
DUALRED	      
	<p>Detector for protection of openings, windows and doors - 2 detection units: dual PIR element plus internal contact and/or input for external device - Volumetric protection: 10 infrared beams, 2 levels, coverage 76° on the horizontal, 3° on the vertical plane, 2.5m maximum range - Programmable AND/OR detection logic - Self test and automatic temperature compensation - External device: magnetic contact - Anti-tamper protection: anti-opening/antidetachment - Environmental class II (indoor general) - ASA casing - Elegant and compact design</p>
	Item no. F102DUALRED (white)
	Item no. F102DUALREDM (brown)

DUALRED - Technical and functional specifications

General features	Type	DUALRED
Detection features IR	Infrared detector	2 dual PIR elements
	Infrared beams	10
	Levels (infrared beams)	2
	Coverage	H76°, V3°, 2.5m range
	Detection logic	AND
	Settings	Pulse count Range Sensitivity
	Temperature compensation	Automatic
Detection features Contact	Reed	Excludable
	Input for external device	Magnetic contact
Operating mode	Combined	AND logic
	Independent	OR logic

Inputs	Inhibition of detection	Stand-by
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
Test functions	Self test	Automatic
Electrical specifications	Operating voltage	10V...14.5V DC
	Stand-by consumption	20mA @ 12V DC
	Max. consumption	25mA @ 12V DC
Physical specifications	Environmental class	II
	Protection class	IP4x-IK04
	Casing	ASA
	Dimensions (L x H x D)	168 x 30 x 46mm
	Weight	132g

Coverage diagrams





Dual technology for indoor use

TWINTEC	
	<p>Dual technology detector - Volumetric protection: 29 infrared beams, 4 levels, 108° coverage, 18m maximum range - Programmable detection logic - RDV® function - Self test and automatic temperature compensation - Anti-tamper protection: anti-opening/antidetachment - Environmental class II (indoor general) - ABS casing - Design by Pininfarina - White - EN 50131 certification authorizes the use of the swivel mounting bracket Lens with pet-immunity available</p> <p>Item no. F102TWIN18/V - MW frequency 10.525GHz</p> <p>Item no. F102TW18/V-99 - MW frequency 9.9GHz</p> <p>Item no. F102TW18/V-93 - MW frequency 9.35GHz</p> <p>Item no. F102TWIN18/PET - MW frequency 10.525GHz (pet-immunity)</p>

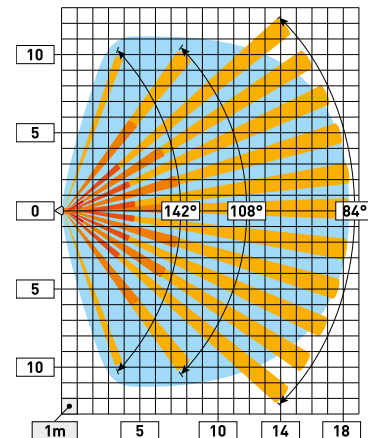
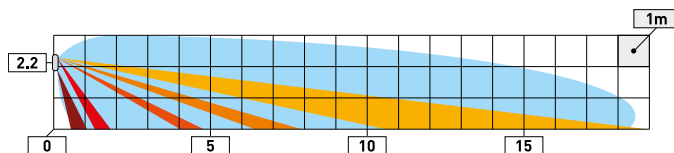
TWINTEC - Technical and functional specifications












General features	Type	TWINTEC
Detection features	Infrared detector	Dual PIR element
	Infrared beams	29
	Levels (infrared beams)	4
	Temperature compensation	Automatic
	Microwave frequency	10.525GHz*
	MW settings	Sensitivity
	Coverage	108°, 18m range
	Detection logic	AND AND + WALK
Inputs	Inhibition of detection	Stand-by
	Synchronization	Sync
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch

Test functions	Self test	Automatic
Electrical specifications	Operating voltage	9V...15V DC
	Stand-by consumption	17mA @ 12V DC
	Max. consumption	25mA @ 12V DC
Physical specifications	Environmental class	II
	Protection class	IP4x-IPK04
	Casing	ABS
	Dimensions (L x H x D)	68 x 118 x 51mm
	Weight	160g
Conformity	Standards	EN 50131-2-4
	Security grade	2
	Notified body	IMQ

** Also available with the frequencies 9.9GHz and 9.35GHz*

Coverage diagrams (TWINTEC - TWINTEC MASK)




TWINTEC MASK	        
 	<p>Dual technology detector - Volumetric protection: 29 infrared beams, 4 levels, 108° coverage, 18m maximum range - Programmable detection logic - RDV® function - Self test and automatic temperature compensation - Anti-tamper protection: anti-opening/antidetachment, antimasking - In the event of a masking attempt, the detector automatically adopts the Walk logic - Environmental class II (indoor general) - ABS casing - Design by Pininfarina - White - EN 50131 certification authorizes the use of the swivel mounting bracket</p>
	Item no. F102TWINM18/V - MW frequency 10.525GHz
	Item no. F102TWM18/V-99 - MW frequency 9.9GHz
	Item no. F102TWM18/V-93 - MW frequency 9.35GHz

TWINTEC MASK - Technical and functional specifications

General features	Type	TWINTEC MASK	Test functions	Self test	Automatic
Detection features	Infrared detector	Dual PIR element	Electrical specifications	Operating voltage	9V...15V DC
	Infrared beams	29		Stand-by consumption	27mA @ 12V DC
	Levels (infrared beams)	4		Max. consumption	30mA @ 12V DC
	Temperature compensation	Automatic	Physical specifications	Environmental class	II
	Microwave frequency	10.525GHz*		Protection class	IP4x-IK04
	MW settings	Sensitivity		Casing	ABS
	Coverage	108°, 18m range		Dimensions (L x H x D)	68 x 118 x 51mm
	Detection logic	OR AND AND + WALK	Weight	160g	
RDV®	Programmable	Conformity	Standards	EN 50131-2-4	
Inputs	Inhibition of detection		Stand-by	Security grade	3
	Synchronization		Sync	Notified body	IMQ
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch	* Also available with the frequencies 9.9GHz and 9.35GHz		
	Antimasking	Programmable			

TWINTEC - TWINTEC MASK - Accessories

	<p>SNODO 2000</p> <p>Swivel mounting bracket with H±45°, V-15° orientation - Surface mounting - Anti-tamper protection: anti-opening/antidetachment</p>
	Item no. F102SNODO2000



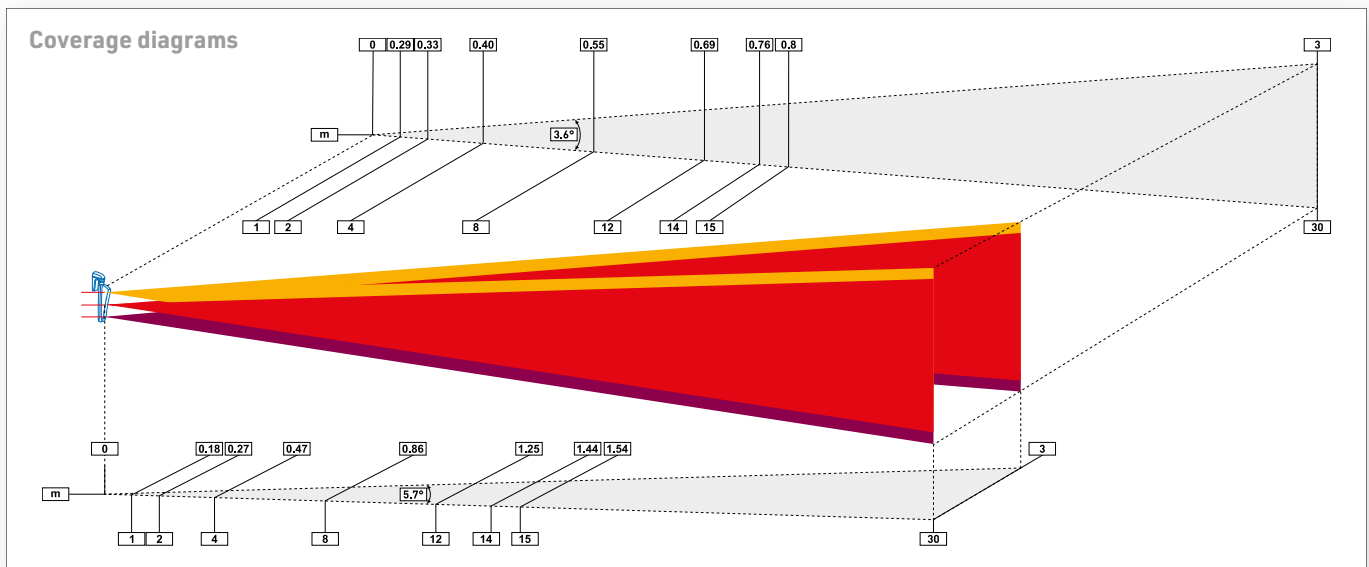
Passive infrared for outdoor use

TRIRED	
	<p>Infrared detector for protection of sheltered outdoor areas close to the building, balconies and terraces - Volumetric protection: 3 infrared beams with curtain lenses, 3 levels, coverage 5.7° on the horizontal, 3.6° on the vertical plane, 30m maximum range - Integrated swivel mounting bracket with ample opportunities for orientation - Programmable AND detection logic - Pulse count and sensitivity programmable for each infrared element - Self test and automatic temperature compensation - Anti-tamper protection: anti-opening/antidetachment, antimasking - Environmental class III (indoor and sheltered outdoor) - ASA casing - White</p>
Item no. F102TRIRED	



TRIRED - Technical and functional specifications

General features	Type	TRIRED
Detection features	Infrared detector	3 dual PIR elements
	Infrared beams	3
	Levels (infrared beams)	3
	Settings	Pulse count Sensitivity
	Temperature compensation	Automatic
	Coverage	H 5.7°, V 3.6°, 30m range
	Detection logic	AND (8 settings)
	Orientation	H 180° (±90°) V 20° (±10°)
Inputs	Inhibition of detection	Stand-by

Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Antimasking	Programmable
Test functions	Self test	Automatic
Electrical specifications	Operating voltage	10V...14.5V DC
	Stand-by consumption	27mA @ 12V DC
	Max. consumption	25mA @ 12V DC
Physical specifications	Environmental class	III
	Protection class	IP55-IK04
	Casing	ASA
	Dimensions (L x H x D)	82 x 400 x 260mm
	Weight	1.2kg



Dual technology for outdoor use

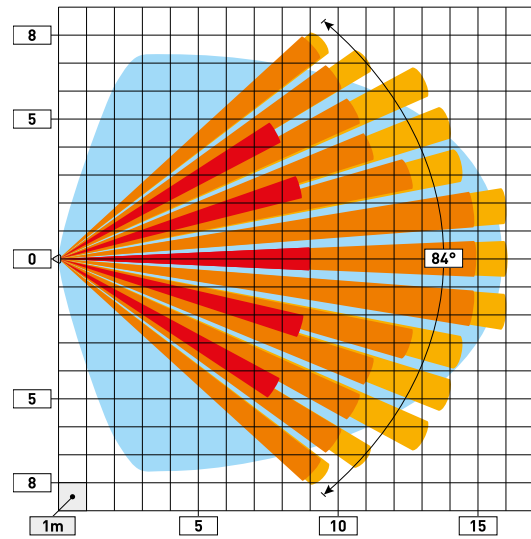
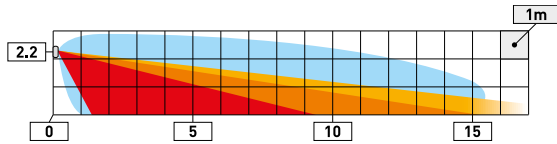
<p>GLOBAL SPACE</p>		<p>3IR+MW AND LOGIC</p>	<p>COVERAGE 15m 84°</p>	<p>ANTI-MASK</p>	<p>SELF TEST</p>	<p>TEMPERATURE COMPENSATION</p>	<p>CLASS III SHELTERED OUTDOOR</p>	<p>IP44</p>	
	<p>Infrared and microwave detector for protection of sheltered outdoor areas close to the building, gardens and terraces - High-density volumetric protection with multi-point technology: 43 infrared beams, 5 levels, 15m maximum range - Coverage adjustable with lens shutter - Programmable AND detection logic - Self test and automatic temperature compensation - Great versatility of installation thanks to a comprehensive range of accessories - Anti-tamper protection: anti-opening/antidetachment, antimasking - Environmental class III (indoor and sheltered outdoor) - ASA casing - White</p>								
<p>Item no. F102GLOSPACE - MW frequency 10.525GHz</p>									
<p>Item no. F102GLOSPACE/99 - MW frequency 9.9GHz</p>									
<p>Item no. F102GLOSPACE/93 - MW frequency 9.35GHz</p>									

GLOBAL SPACE - Technical and functional specifications

General features	Type	GLOBAL SPACE	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch			
<p>Detection features</p>	Infrared detector	3 dual PIR elements	<p>Anti-opening/antidetachment</p>	<p>Antimasking</p>	Programmable			
	Infrared beams	43			<p>Self test</p>	<p>Automatic</p>	<p>Operating voltage 10V...14.5V DC</p>	
	Levels (infrared beams)	5	<p>Electrical specifications</p>	<p>Stand-by consumption 30mA @ 12V DC</p>				<p>Max. consumption 37mA @ 12V DC</p>
	Coverage	84° (adjustable), 15m range						
	Coverage adjustment	Lens shutter	Casing	ASA				
	Settings	Pulse count Sensitivity	Dimensions (L x H x D)	76 x 192 x 83mm				
	Temperature compensation	Automatic	Weight	240g				
	Microwave detector	Excludable	<p><i>* Also available with the frequencies 9.9GHz and 9.35GHz</i></p>					
	Microwave frequency	10.525GHz*						
	Detection logic	AND (4 settings)						
	RDV®	Programmable						
Inputs	Inhibition of detection	Stand-by						








Coverage diagrams



GLOBAL SPACE - Accessories

	<p>CORNER MOUNTING BRACKET</p> <p>Corner mounting bracket for wall mounting with 22.5° or 45° angle - ASA - White</p> <hr/> <p>Item no. F102STAFFAGLOB</p>		<p>RAIN COVER</p> <p>Rain cover for protection against bad weather and sunlight - ASA - White - Dimensions (L x H x D) 136 x 58 x 162mm</p> <hr/> <p>Item no. F102GLOCALOTTA</p>
	<p>SNODO GLOBAL SPACE</p> <p>Swivel mounting bracket with H ±90°, V ±10° orientation - Surface mounting - Anti-tamper protection: antidetachment</p> <hr/> <p>Item no. F102SNODOGLOB</p>		

Microwave for outdoor use

EXPLORER II	   
	<p>Microwave barrier for perimeter protection of high-risk areas in the outdoors, such as great industrial plants, solar parks, warehouses and airports - High resistance to bad weather conditions, light and RFI/EMI interference - 60m, 120m, 180m maximum range (according to model) - Anti-tamper protection: anti-opening, anti-twist - Environmental class IV (outdoor general)</p>
	EXPLORER II 0600
	Item no. F102BAR.0600 - Pair of transmitter and receiver columns - 60m range
	EXPLORER II 1200
	Item no. F102BAR.1200 - Pair of transmitter and receiver columns - 120m range
EXPLORER II 1800	
Item no. F102BAR.1800 - Pair of transmitter and receiver columns - 180m range	

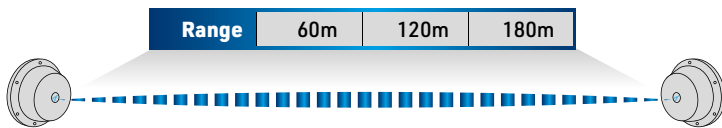
EXPLORER II - Technical and functional specifications

General features	Type	EXPLORER II	Electrical specifications AC	Operating voltage	18V AC
Detection features	EXPLORER II 0600	60m range	Electrical specifications DC	Max. consumption	360mA @ 18V AC
	EXPLORER II 1200	120m range		Operating voltage	9V...15V DC
	EXPLORER II 1800	180m range		Max. consumption	170mA @ 13.8V DC
	Microwave frequency	10.525GHz		Battery	12V/2Ah
	Transmission power	≤500mW	Current available for battery recharge	240mA	
	Settings	Response time Sensitivity Transmission channel	Physical specifications	Environmental class	IV
Inputs	Inhibition of detection	Stand-by		Protection class	IP65
Anti-tamper protection	Anti-opening	Micro-switch		Casing	Al + ASA
	Anti-twist	Mechanical		Dimensions (L x H x D)	310 x 310 x 239.5mm
			Weight	5.2kg	

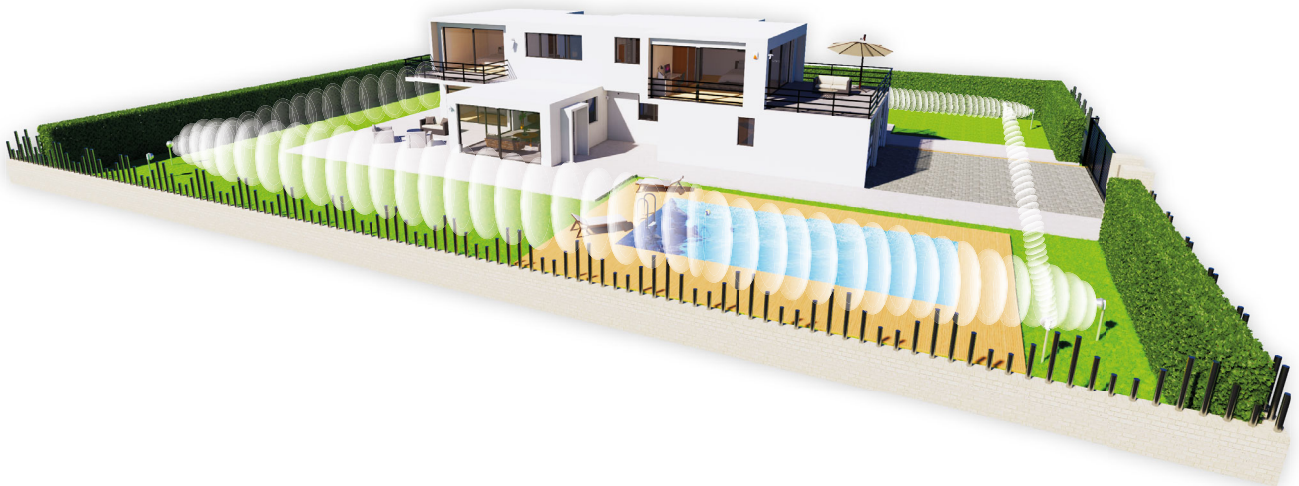


Configurations

Perimeter configuration



4-sides perimeter



EXPLORER II - Accessories

	POST
	Mounting post for EXPLORER II and EXPLORER BUS - Zinc-coated - Dimensions (Ø x H) 60 x 1500mm
	Item no. F102PALI

	TA1/N3 TRANSFORMER KIT
	220/18V AC 60VA transformer kit for QUADBEAM, EXPLORER II and EXPLORER BUS
	Item no. F102TRASFBARR.

	MOUNTING BRACKET
	L-shaped wall mounting bracket for EXPLORER II and EXPLORER BUS - Zinc-coated - Outreach 220mm or 420mm
	Item no. F102STAFFAEXPL - 220mm Item no. F102STAFFAEX42 - 420mm

	TECNOTESTER
	Tester for alignment of EXPLORER II.
	Item no. F102TESTEREXPL

Active infrared for outdoor use

QUADBEAM								
	Active infrared barrier - 4 infrared beams - 100m or 200m maximum range (depending on model) - Wall or post mounting with optional brackets - Environmental class III (indoor and sheltered outdoor) - PC Makrolon casing - Black							
	QUADBEAM 100	Item no. F102QUADBEAM100 - 100m range						
	QUADBEAM 200	Item no. F102QUADBEAM200 - 200m range						

QUADBEAM - Technical and functional specifications






General features	Type	QUADBEAM 100 QUADBEAM 200	Anti-tamper protection	Anti-opening	Micro-switch
Detection features	Infrared beams	4	Electrical specifications	Operating voltage	10.5V...14.5V DC
	QUADBEAM 100	100m range		Stand-by consumption	61mA @ 12V DC
	QUADBEAM 200	200m range		Max. consumption	88mA @ 12V DC
	Settings	Response time	Physical specifications	Environmental class	III
	Disqualification	Programmable		Protection class	IP45
	Synchronization	Digital automatic		Casing	PC Makrolon
	Orientation	H 180° (±90°) V 20° (±10°)		Dimensions (L x H x D)	102 x 436 x 106mm
			Weight	3.4Kg	

QUADBEAM - Accessories

	HEATER Thermostatic heater module for QUADBEAM (sold in packs of 2) Item no. F102QUADBRISC		TA1/N3 TRANSFORMER KIT 220/18V AC 60VA transformer kit for QUADBEAM, EXPLORER II and EXPLORER BUS Item no. F102TRASFBARR.
	POST Mounting post for DUALBEAM WL and QUADBEAM - Zinc-coated - Dimensions (Ø x H) 50 x 1500mm Item no. F102PALOBEAM		MOUNTING KIT Post mounting kit for DUALBEAM WL and QUADBEAM (kit for one pair of transmitter and receiver) Item no. F102KITPALOBEAM
	MONITOR 868 Wireless receiver for alignment of DUALBEAM WL, QUADBEAM, BEAMTOWER and EXPLORER BUS Item no. F102MONITOR868		SHUTTERS Shutters for DUALBEAM WL, QUADBEAM and BEAMTOWER (sold in packs of 10) Item no. F102KITATTENUA
			ALIGNMENT KIT Suitcase with optical viewfinder and shutters for DUALBEAM WL, QUADBEAM and BEAMTOWER Item no. F102KITMIRINO



Optical smoke detectors

SMOKY WIRED	   
	<p>Conventional optical smoke detector - Tyndall effect - Sensitivity programmable on 3 levels - Programmable contact type and alarm reset - Electrical test function - Surface ceiling mount - Environmental class II (indoor general) - ABS casing - White</p> <p>Item no. F102SMOKYWIRED</p>

SMOKY WIRED - Technical and functional specifications

General features	Type	SMOKY WIRED
Detection features	Smoke detector	Tyndall effect
	Settings	Sensitivity
	Range	5m
Signaling	Stand-by	Optical
	Alarm	Optical
	Failure	Optical
Outputs	Alarm	NC
Test functions	Test	Manual

Electrical specifications	Operating voltage	10V...30V DC
	Stand-by consumption	2mA @ 12V DC
	Max. consumption	4mA @ 12V DC
Physical specifications	Environmental class	II
	Protection class	IP22-IK02
	Casing	ABS
	Dimensions (Ø x H)	100 x 52mm
	Weight	115g








Sirens

For indoor use - For outdoor use

The optical-acoustic warning devices by Tecnoalarm are designed to satisfy the most sophisticated requirements, in compliance with the current standards and regulations. They meet the highest levels of intrinsic security and functionality for both indoor or outdoor use. The elegant and functional Pininfarina design allows a perfect blending with every architectural framework.






INDOOR

Sirens for indoor use

SIREL					
	Piezoelectric siren - Sound level 90dB(A) @ 3m - 3400-4000/3700Hz frequency - 2 control inputs: prealarm (low volume), alarm (high volume) - Programmable sound type: sweep, intermittent - Anti-tamper protection: anti-opening/antidetachment - Environmental class II (indoor general) ASA casing - Design by Pininfarina - White				
	Item no. F105SIREL				









SIREL - Technical and functional specifications

General features	Type	SIREL	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
Acoustic features	Sound level on main axis	90dB(A) @ 3m	Electrical specifications	Operating voltage	10.5V...14.5V DC
	Frequency	3400Hz...4000Hz 3700Hz		Max. consumption	50mA @ 13.8V DC
Settings	Sound type	2 settings	Physical specifications	Environmental class	II
Inputs	Alarm	✓		Protection class	IP3x-IPK06
	Prealarm	✓		Casing	ASA
				Dimensions (L x H x D)	105 x 160 x 44mm
			Weight	215g	

SIREL LED					
	Piezoelectric siren - Sound level 90dB(A) @ 3m - 3400-4000/3700Hz frequency - LED flashlight - 3 control inputs: prealarm (low volume), alarm (high volume), optical signal - Programmable sound type: sweep, intermittent - Programmable flashlight type: sweep, flash - Anti-tamper protection: anti-opening/antidetachment - Environmental class II (indoor general) ASA casing - Design by Pininfarina - White				
	Item no. F105SIRELLEDR - Red flashlight				
	Item no. F105SIRELLEDB - White flashlight				

SIREL LED - Technical and functional specifications

General features	Type	SIREL LED	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
Optical-acoustic features	Sound level on main axis	90dB(A) @ 3m	Electrical specifications	Operating voltage	10.5V...14.5V DC
	Frequency	3400Hz...4000Hz 3700Hz		Max. consumption SIREL LED B	200mA @ 13.8V DC
	Flashlight	LED		Max. consumption SIREL LED R	110mA @ 13.8V DC
Settings	Sound type	2 settings	Physical specifications	Environmental class	II
	Flashlight	Flash/sweep		Protection class	IP3x-IPK06
Inputs	Alarm	✓		Casing	ASA
	Prealarm	✓		Dimensions (L x H x D)	105 x 160 x 44mm
	Flashlight	✓	Weight	190g	

SIRTEC	     
 	<p>Self-powered magneto-dynamic siren - Sound level 117dB(A) @1m - 2400-3500Hz frequency - Programmable sound type and alarm time - Anti-tamper protection: anti-opening/antidetachment - Environmental class II (indoor general) - ABS casing - Design by Pininfarina - EN 50131-4 certification security grade 2</p>
	Item no. F105SIRTEC (white)
	Item no. F105SIRTECGR (silver gray)





SIRTEC - Technical and functional specifications

General features	Type	SIRTEC
Acoustic features	Sound level on main axis	117dB(A) @ 1m
	Frequency	2400Hz...3500Hz
Settings	Sound type	2 settings
	Power supply control	✓
Inputs	Siren control	✓
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
Electrical specifications	Operating voltage	10.5V...14.5V DC
	Stand-by consumption	8mA @13V DC
	Max. consumption	1.8A @ 13V DC
	Battery	12V/2Ah

Physical specifications	Environmental class	II
	Protection class	IP41-IK07
	Casing	ABS
	Dimensions (L x H x D)	290 x 95 x 70mm
	Weight (w/o battery)	760g
Conformity	Standards	EN 50131-4
	Security grade	2
	Notified body	IMQ

OUTDOOR

Sirens for outdoor use

SAEL 2010 LED	SOUND LEVEL 103 dB(A) @1m	SELF POWERED	SOUND TYPE SETTING	ANTIFOAM PROTECTION	SELF TEST	SECURITY GRADE 3	CLASS IIIA SHELTERED OUTDOOR	IP44
 	Self-powered magneto-dynamic siren - Sound level 103dB(A) @ 1m - LED flashlight - Signaling for system status and arming/disarming of the system - Self test function and failure signaling for: power supply, battery, flashlight or horn failure - Anti-tamper protection: anti-opening/antidetachment, antifoam - Environmental class IIIA (indoor and sheltered outdoor) - Design by Pininfarina - EN 50131-4 certification security grade 3							
Item no. F105SAEL2010LBI - Casing: ABS base, white ASA cover								
Item no. F105SAEL2010LGR - Casing: ABS base, silver gray ASA cover								
Item no. F105SAEL2010LAL - Casing: ABS base, varnished aluminum cover								
Item no. F105SAEL2010LCR - Casing: ABS base, chrome-plated aluminum cover								
SAEL 2010PRO LED	SOUND LEVEL 103 dB(A) @1m	SELF POWERED	SOUND TYPE SETTING	ANTI-DRILLING PROTECTION	SELF TEST	SECURITY GRADE 4	CLASS IIIA SHELTERED OUTDOOR	IP44
 	Self-powered magneto-dynamic siren with a complete anti-tamper equipment: anti-opening/antidetachment, antifoam and anti-drilling - Sound level 103dB(A) @ 1m - LED flashlight - Signaling for system status and arming/disarming of the system - Self test function and failure signaling for: power supply, battery, flashlight or horn failure - Environmental class IIIA (indoor and sheltered outdoor) - Design by Pininfarina - EN 50131-4 certification security grade 4							
Item no. F105S2010PROL - Casing: ABS base, varnished aluminum cover								

SAEL 2010 LED - SAEL 2010PRO LED - Technical and functional specifications

General features	Type	SAEL 2010 LED SAEL 2010PRO LED	Electrical specifications	Operating voltage	10.5V...14.5V DC
Optical-acoustic features	Sound level on main axis	103dB(A) @ 1m		Stand-by consumption	12mA @ 13V DC
	Frequency	1400Hz...3600Hz		Max. consumption	1.8A @ 13V DC
	Flashlight	LED		Consumption during status signaling	70mA @ 13V DC
Settings	Sound type	8 settings		Battery	12V/2Ah
	Volume	2 settings	Physical specifications	Environmental class	IIIA
	Post alarm blinking	✓		Protection class	IP44-K08
	Optical signaling	System status Failure		Casing	ASA/AL
Optical-acoustic signaling	Arming/disarming	Dimensions (L x H x D)		211 x 315 x 98mm	
Inputs	Siren control	✓	Weight (w/o battery) SAEL 2010 LED	2kg ASA 2.7kg AL	
	Stand-by	✓	Weight (w/o battery) SAEL 2010PRO LED	3.1kg AL	
	Flashlight	✓	Conformity	Standard	EN 50131-4
Outputs	Failure	Open collector		Security grade SAEL 2010 LED	3
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch		Security grade SAEL 2010PRO LED	4
	Antifoam	✓		Notified body	IMQ
	Anti-drilling*	✓	* Only available with SAEL 2010PRO LED		
Test functions	Self test	Automatic			



Power supplies External - Built-in

In electronic equipment, especially in the field of security systems, the role of power sources is of utmost importance. The choice and the correct sizing of the primary (power supply) and secondary (battery) power source determine in large measure the stability and reliability of the security systems. In the design of power supplies, Tecnoalarm pays particular attention to the systems' requirements of power, efficiency and reliability, in full compliance with the electrical safety standards.







External power supplies

TAPS-8	
	<p>Type A power supply providing a maximum current of 8A @ 13.8V DC - Self test and automatic battery disconnection in case of deep discharge - Front panel with 6 status LED - 8A/13.8V DC switching Fly-back power supply - Bay for 2x 12V/17Ah batteries - Environmental class II (indoor general) - Metal casing - Black - EN 50131-6 certification security grade 2</p>
Item no. F107TAPS-8	

TAPS-8 - Technical and functional specifications





General features	Power supply	8A/13.8V DC type A			
Electrical output specifications	Power supply outputs	5	Electrical specifications battery	Capacity	2x 12V/17Ah
	Output voltage	12.5V...13.8V DC		Battery test	Automatic
	Max. ripple	<50mV p-p		Low battery threshold	10.8V DC
	Battery recharge current	850mA each		Cut-off voltage	<8.8V DC
	Current available for loads	Max. 5.5A		Charging time	80% ca. 19h (2 batteries of 17Ah)
	Overvoltage signal	>16V ±10%	Physical specifications	Environmental class	II
	Overcharge signal	1 LED per output		Protection class	IP3x
Failure outputs	Power supply lost	NC - relay		Casing	Metal
	Battery failure	NC - relay		Dimensions (L x H x D)	320 x 365 x 170mm
Anti-tamper protection	Anti-opening/antidetachment	Micro-switch	Weight	5.8kg	
	Electrical specifications power supply	Type	8A/13.8V DC	Autonomy	Security grade 2 12h (2.83Ah*)
Operating voltage		230V AC +10/-15% 50Hz	Conformity	Standards	EN 50131-6
Max. consumption		600mA AC		Security grade	2
			Notified body IMQ		
* Available current for loads in case of power failure					

UPS1260				
	Power supply providing a maximum current of 6A @ 13.8V DC - Bay for 1x 12V/17Ah battery - Environmental class II (indoor general) - Metal casing - Black			
	Item no. F107UPS1260			

UPS1260 - Technical and functional specifications

General features	Power supply	6A/13.8V DC
Electrical output specifications	Power supply outputs	4
	Rated output voltage	13.8V DC
	Max. ripple	<160mV p-p
	Battery recharge current	1.2A
	Current available for loads	Max. 4.4A
	Overcharge signal	1 LED per output
Anti-tamper protection	Anti-opening	Micro-switch
Battery	Capacity	12V/17Ah

Electrical specifications power supply	Type	6A/13.8V DC
	Operating voltage	230V AC 50Hz
	Max. consumption	625mA AC
Physical specifications	Environmental class	II
	Protection class	IP3x
	Casing	Metal
	Dimensions (L x H x D)	320 x 365 x 170mm
	Weight	4.8kg

UPS2435				
	Power supply providing a maximum current of 3.5A @ 27.8V DC - Bay for 2x 12V/17Ah batteries - Environmental class II (indoor general) - Metal casing - Black			
	Item no. F107UPS2435			

UPS2435 - Technical and functional specifications

General features	Power supply	3.5A/27.8V DC
Electrical output specifications	Power supply outputs	4
	Rated output voltage	27.8V DC
	Max. ripple	≤180mV p-p
	Battery recharge current	700mA
	Current available for loads	Max. 2.8A
	Overcharge signal	1 LED per output
Anti-tamper protection	Anti-opening	Micro-switch
Battery	Capacity	2x 12V/17Ah

Electrical specifications power supply	Type	3.5A/27.8V DC
	Operating voltage	230V AC 50Hz
	Max. Consumption	800mA AC
Physical specifications	Environmental class	II
	Protection class	IP3x
	Casing	Metal
	Dimensions (L x H x D)	320 x 365 x 170mm
	Weight	4,8kg

Built-in power supplies

<p>ALSW148PFC</p>					
	<p>Switching Fly-back power supply with PFC circuit providing a maximum current of 8A @ 14.4V DC - Metal casing - Dimensions (L x H x D) 175 x 53 x 108mm - EN 62368-1, EN 50130-4 certification</p>				
<p>Item no. F107ALSW148PFC</p>					
<p>ALSW146</p>					
	<p>Switching Fly-back power supply providing a maximum current of 6A @ 14.4V DC - Metal casing - Dimensions (L x H x D) 137 x 53 x 108mm - EN 62368-1, EN 50130-4 certification</p>				
<p>Item no. F107ALSW146</p>					



Accessories

Batteries - Cables - Contacts

Tecnoalarm presents its customers a wide selection of system accessories, which complement and complete the products catalog. These accessories meet stringent quality requirements and comply with the applicable product standards. The compatibility with the Tecnoalarm systems has been tested and evaluated in order to obtain an excellent functional synergy and satisfy all the technical requirements.

Batteries

YUASA	
	NP 1.2-12
	YUASA 12V/1.2Ah rechargeable lead-acid battery - Dimensions (L x H x D) 97 x 52.5 x 48mm
	Item no. F108YUASA 1,2
	NP 2-12
	YUASA 12V/2.3Ah rechargeable lead-acid battery - Dimensions (L x H x D) 178 x 64 x 34mm
	Item no. F108021 YU
	NP 7-12
	YUASA 12V/7Ah rechargeable lead-acid battery - Dimensions (L x H x D) 151 x 97.5 x 65mm
	Item no. F108YUASA 7
	NP 12-12
	YUASA 12V/12Ah rechargeable lead-acid battery - Dimensions (L x H x D) 151 x 97.5 x 98mm
	Item no. F108YUASA 12
	NP 17-12
	YUASA 12V/17Ah rechargeable lead-acid battery - Dimensions (L x H x D) 181 x 167 x 76mm
	Item no. F108017 YU
	NP 24-12
	YUASA 12V/24Ah rechargeable lead-acid battery - Dimensions (L x H x D) 166 x 125 x 175mm
	Item no. F108240 YU
FIAMM	
	FG 2-12
	FIAMM 12V/2Ah rechargeable lead-acid battery - Dimensions (L x H x D) 178 x 67 x 34.5mm
	Item no. F10802 FI
	FG 7-12
	FIAMM 12V/7.2Ah rechargeable lead-acid battery - Dimensions (L x H x D) 151 x 99 x 65mm
	Item no. F108FIAMM 7
	FG 12-12
	FIAMM 12V/12Ah rechargeable lead-acid battery - Dimensions (L x H x D) 151 x 99 x 98mm
	Item no. F108FIAMM 12
	FG 18-12
	FIAMM 12V/18Ah rechargeable lead-acid battery - Dimensions (L x H x D) 181 x 165.5 x 76mm
	Item no. F108018 FI

Replacement batteries

PHOTO	ITEM	ITEM NO.	BATTERY PHOTO	BATTERY ITEM NO.
	EV EXTENDER BWL	F102EVEXTBWL		C126BATTECNOC3 2x 1.2V/2.5Ah
	EV LCD-AL BWL	F102EVLCDALBWL		C126BATT36V2PZ 2x 3.6V/2.6Ah
	EV LCD BWL	F102EVLcdbwl		C126BATT36V2PZ 2x 3.6V/2.6Ah
	EV PROX BWL	F102EVPROXBWL		C126BATT36V22 3.6V/2.2Ah
				C126BATT36V22S 3.6V/2.6Ah
	EV CMD BWL	F102EVCMBWL		C126BATTCCR2450 3V/0.62Ah
	EV IRS BWL	F102EVIRSBWL		C126BATTCCR2 3V/0.85Ah
	EV IR BWL	F102EVIRBWL/V F102EVIRBWL/C F102EVIRBWL/T F102EVIRBWL/PET		C126BATTRADIO 3.6V/2.6Ah
	EV IRSPACE BWL	F102EVIRSPACBWL		C126BATT36V22 3.6V/2.2Ah
				C126BATT36V22S 3.6V/2.6Ah
	EV CAM BWL	F102EVCAMBWL		C126BATTCCR123 2x 3V/1.4Ah
	EV DRED BWL	F102EVDREDBWL F102EVDREDBWLM		C126BATTRADIO 3.6V/2.6Ah
	EV REDWAVE BWL	F102EVREDWABWL F102EVREDWABWLM		C126BATTRADIO 3.6V/2.6Ah
	EV TXI BWL	F102EVTXIBWL F102EVTXIBWLM		C126BATTCCR2 3V/0.85Ah
	EV TX BWL	F102EVTXBWL F102EVTXBWLM		C126BATTCCR2 3V/0.85Ah
	EV TXS BWL	F102EVTXSBWL F102EVTXSBWLM		C126BATTCCR2 3V/0.85Ah
	EV GLOB BWL	F102EVGLOBBWL		C126BATT36V2PZ 2x 3.6V/2.6Ah

EV@BWL

	PHOTO	ITEM	ITEM NO.	BATTERY PHOTO	BATTERY ITEM NO.
EV@BWL		EV SMK BWL	F102EVSMKBWL		C126BATTRADIO 3.6V/2.6Ah
		EV TERM BWL	F102EVTERMBWL		C126BATT3V023 3V/0.23Ah
		EV SIREL BWL	F102EVSIRELBWL		C126BATT2X36SIR 2x 3.6V/2.6Ah
		EV SAEL BWL	F102EVSaelBWL		C126BATT36V13 3.6V/13Ah

ASYN@WL		TX240-3	F102TX240-3/868		C126BATT3V023 3V/0.23Ah
		TWINBAND WL	F102TWINBAND/V F102TWINBAND/C F102TWINBAND/T F102TWINBAND/PE		C126BATTRADIO 3.6V/2.6Ah
		DRED500 BWL	F102DRED500BWL F102DRED500BWL M		C126BATTRADIO 3.6V/2.6Ah
		GLOB500 BWL	F102GLOB500BWL		C126BATT3X36V 3,6V 7,8Ah
		TRIRED WL	F102TRIREDWL F102TRIREDWL15		C126BATT36V13 3.6V/13Ah
		TX310	F102TX310 F102TX310/M		C126BATTRADIO 3.6V/2.6Ah
		DUALBEAM WL	F102DUALBEAMWL		C126BATT36V2X13 3,6V 13Ah (TX)
					C126BATT36V13 3.6V/13Ah (RX)
	SMOKY	F102SMOKY		C126BATTRADIO 3.6V/2.6Ah	

The images of the batteries are purely indicative and do not identify the brand of the product.

CPR compliant cables



Construction Products Regulation (CPR)

Pursuant to the European regulation EU 305/2011, also known as Construction Products Regulation (CPR), electric cables must conform to harmonized rules, such as classes of reaction to fire (RtF).

REACTION TO FIRE	FLAME RETARDANCY
CPR EU 305/2011 - EN 50575:2014 + A1:2016	EN 60332-1-2

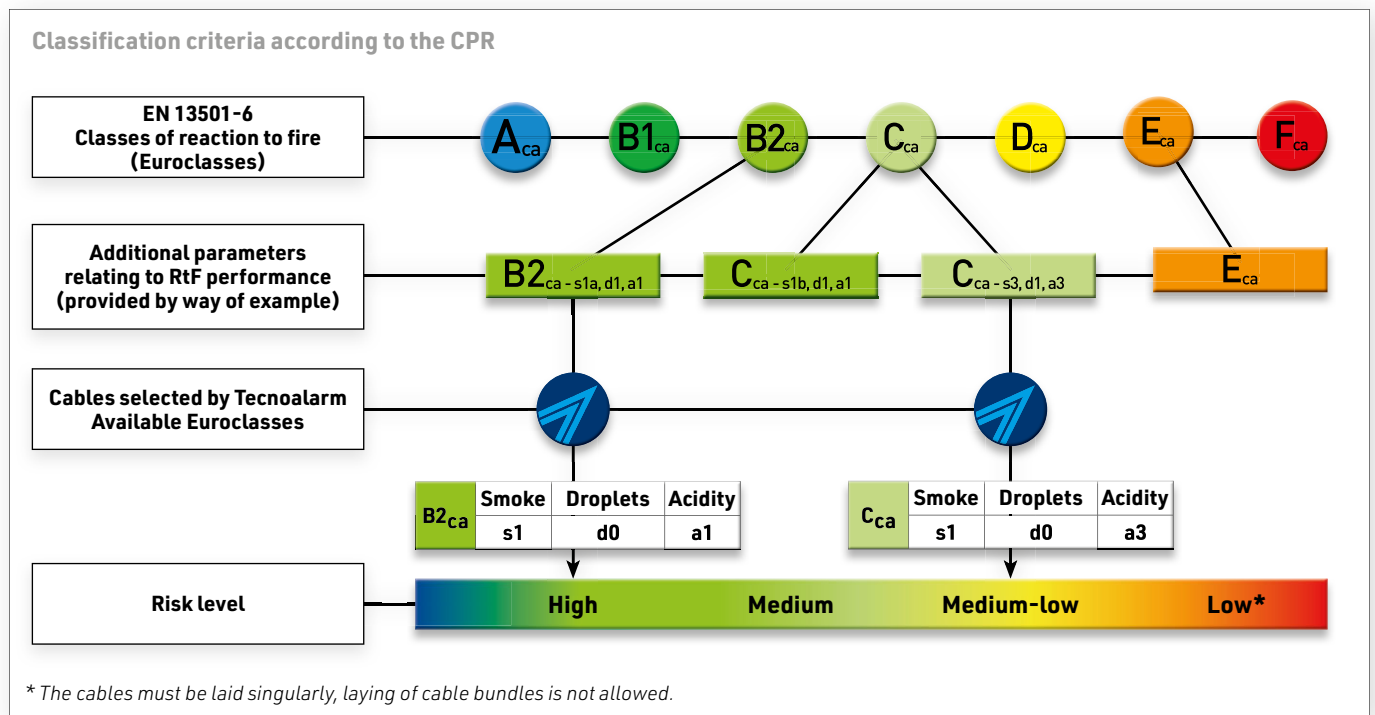
PVC C_{ca} - s1, d0, a3						

ITEM	DESCRIPTION	SPOOL	ITEM NO.
2x022	Shielded	200m	F11200000508
4x022	Shielded	200m	F11200000500
		500m	F11200000501
6x022	Shielded	200m	F11200000502
		500m	F11200000503
8x022	Shielded	200m	F11200000509
2x050+2x022	Shielded	200m	F11200000512
		500m	F11200000513
2x050+4x022	Shielded	200m	F11200000504
		500m	F11200000505
2x050+6x022	Shielded	200m	F11200000514
2x050+10x022	Shielded	200m	F11200000515
2x075+4x022	Shielded	200m	F11200000516
2x075+6x022	Shielded	200m	F11200000517
2x075+6x022	Shielded	500m	F11200000527
2x050+(1x1+1x050)+1x1	Shielded - 1 twisted pair	200m	F11200000521
2x1+2x050	Shielded - 1 twisted pair	200m	F11200000518
2x034+2x022+1x022	Shielded - 1 twisted pair (RS485 cable for console with speaker)	200m	F11200000506
		500m	F11200000507
3x050+2x(2x034)	Shielded - 2 twisted pairs (RS422 cable for TECNOCELL 4)	200m	F11200000520
2x1+2x(2x050)	Shielded - 2 twisted pairs	200m	F11200000519
2x1+2x(2x050)	Shielded - 2 twisted pairs (cable for outdoor installation, black jacket)	200m	F11200000510
		500m	F11200000511

LSZH B_{2ca} - s1, d0, a1						

ITEM	DESCRIPTION	SPOOL	ITEM NO.
2x050+4x022	Shielded	200m	F11200000530
2x034+2x022+1x022	Shielded - 1 twisted pair	200m	F11200000531
2x1+2x(2x050)	Shielded - 2 twisted pairs	500m	F11200000523
		200m	F11200000532
2x1+2x(2x050)	Shielded - 2 twisted pairs	500m	F11200000533
		500m	F11200000534

* Available upon request with armor



Field of use

In the course of the implementation of the Construction Products Regulation (CPR), the EU Member States have defined the minimum class of reaction to fire (Euroclass) required for each field of use and the associated risk level.

The marking of the cables indicates the Euroclass and, if applicable, additional parameters relating to the reaction-to-fire (RtF) performance, in particular, the smoke production (s-Smoke), the dripping of flaming particles (d-Droplets) and the acidity of smoke (a-Acidity).



N.B. It is the task of the planning engineer to determine, according to the national rules, the cables to be used for the field of use.

The below table illustrates the minimum Euroclass requirements for 4 fields of use (according to Italian law).

FIELD OF USE	RISK LEVEL	EUROCLASS
Airports, harbors, railway and subway stations, road and railway tunnels	HIGH	B2_{ca} - s1a, d1, a1
Public and high-rise buildings, sanitary, hospital, medical or in-patient facilities, rehab clinics, diagnostic laboratories, rest homes, hotels, theaters, sports facilities and gyms, outdoor tourist facilities, camping sites and resorts, schools, nurseries and kindergardens, production plants	MEDIUM	C_{ca} - s1b, d1, a1
Private buildings, buildings for civil use, waiting rooms, bars, cafés, restaurants, medical practices	LOW	C_{ca} - s3, d1, a3
Buildings with low risk of fire and little danger for persons and/or things, dwellings	LOW*	E_{ca}

** The cables must be laid singularly, laying of cable bundles is not allowed.*









Reed contacts - EN 50131-2-6 security grade 3

	<p>1001N </p> <p>High-security magnetic contact - Triple balancing - Anti-opening protection - Terminal connection - Surface mounting - Environmental class IV - IP65 - Metal die cast - White - Dimensions (L x H x D) 125 x 38 x 27.5mm</p>		<p>1021N </p> <p>As 1001N but with antidetachment protection</p>
	<p>Item no. F1061001N</p>		<p>Item no. F1061021N</p>

Reed contacts - EN 50131-2-6 security grade 2

	<p>1003N </p> <p>Magnetic contact for metal window/door frames - Double balancing - Terminal connection - Surface mounting - Environmental class IV - IP65 - Aluminum - White - Dimensions (L x H x D) 125 x 38 x 27.5mm</p>		<p>1005N </p> <p>High-sensitivity magnetic contact for metal window/door frames - Terminal connection - Surface mounting - Environmental class IV - IP65 - Aluminum - White - Dimensions (L x H x D) 125 x 38 x 27.5mm</p>
	<p>Item no. F1061003N</p>		<p>Item no. F1061005N</p>
	<p>CTC 002</p> <p>Magnetic contact for metal window/door frames - Wire connection - Surface mounting - Environmental class IV - IP65 - Aluminum - Dimensions (L x H x D) 58 x 15 x 20mm (sold in packs of 2)</p>		<p>403 TF </p> <p>Magnetic contact - Wire connection - Surface mounting - Environmental class III - IP65 - ABS - White - Dimensions (L x H x D) 42 x 14 x 8mm (sold in packs of 10)</p>
	<p>Item no. F106CTC 002</p>		<p>Item no. F106403 TF</p>
	<p>460 N </p> <p>Magnetic contact for metal window/door frames - Wire connection - Surface mounting - Environmental class IV - IP65 - Aluminum - Dimensions (L x H x D) 80 x 18 x 19mm (sold in packs of 2)</p>		<p>460 NS </p> <p>As 460 N but with change-over contact</p>
	<p>Item no. F106460N</p>		<p>Item no. F106460NS</p>
	<p>CTC 013 </p> <p>Magnetic contact for metal window/door frames - Wire connection - Surface mounting - Environmental class IV - IP65 - Aluminum - Dimensions (L x H x D) 58 x 20 x 15mm (sold in packs of 5)</p>		<p>CTC 051</p> <p>Miniaturized magnetic contact for metal window/door frames - Wire connection - Surface mounting - Environmental class IV - IP65 - Aluminum - Dimensions (L x H x D) 36 x 6 x 6mm (sold in packs of 10)</p>
	<p>Item no. F106CTC 013</p>		<p>Item no. F106CTC 051</p>
	<p>401 TF3 </p> <p>Miniaturized magnetic contact for pivot-hung windows - Wire connection (3m) - Environmental class III - IP65 - ABS - White - Dimensions (L x H x D) 55 x 4.5 x 13mm (sold in packs of 5)</p>		<p>401 TF3M </p> <p>As 401 TF3 but brown</p>
	<p>Item no. F106401TF3</p>		<p>Item no. F106401TF3M</p>

	<p>355 </p> <p>Magnetic contact with high mechanical resistance for metal window/door frames - Wire connection - Surface mounting - Environmental class III - IP65 - Aluminum - Dimensions (L x H x D) 25 x 6 x 6mm (sold in packs of 10)</p> <p>Item no. F106355</p>		<p>455 </p> <p>Magnetic contact for roller shutters - Wire connection - Surface mounting - Environmental class IV - IP65 - Brass and nickel-plated iron - Dimensions (L x H x D) 80 x 8.5 x 26mm (sold in packs of 2)</p> <p>Item no. F106455</p>
	<p>462 N </p> <p>Magnetic contact for metal window/door frames - Terminal connection - Surface mounting - Environmental class III - IP34 - Aluminum - Dimensions (L x H x D) 80 x 18 x 19mm (sold in packs of 2)</p> <p>Item no. F106462N</p>		<p>450 N </p> <p>Magnetic contact for swing doors - Wire connection (cable with metal jacket) - Surface mounting on the ground - Environmental class IV - IP65 - Aluminum - Dimensions (L x H x D) 86 x 42 x 15.5mm</p> <p>Item no. F106450N</p>
	<p>CTI 102 </p> <p>High-sensitivity magnetic contact for armored doors - Wire connection - Flush mounting - Environmental class IV - IP65 - Brass - Dimensions (Ø x H) 20 x 32.5mm (sold in packs of 5)</p> <p>Item no. F106CTI 102</p>		<p>CTI 130 </p> <p>High-sensitivity magnetic contact for armored doors - Wire connection - Flush mounting - Environmental class IV - IP65 - Brass - Dimensions (Ø x H) 20 x 18mm (sold in packs of 5)</p> <p>Item no. F106CTI 130</p>
	<p>CTI 002 </p> <p>High-sensitivity magnetic contact - Wire connection - Flush mounting - Environmental class IV - IP65 - Brass - Dimensions (Ø x H) 7.5 x 29.5mm (sold in packs of 10)</p> <p>Item no. F106CTI 002</p>		<p>414 CTF </p> <p>Magnetic contact - Wire connection - Flush mounting - Environmental class III - IP65 - Brass - Dimensions (Ø x H) 8 x 26mm (sold in packs of 10)</p> <p>Item no. F106414CTF</p>
	<p>414 CTF2 </p> <p>As 414 CTF but with sheathed cable</p> <p>Item no. F106414CTF2</p>		<p>423 TF </p> <p>Magnetic contact for armored doors - Wire connection (sheathed cable) - Flush mounting - Environmental class II - IP65 - ABS - White - Dimensions (Ø x H) 12 x 36mm (sold in packs of 2)</p> <p>Item no. F106423TF</p>
	<p>415 TF </p> <p>Magnetic contact - Wire connection - Flush mounting - Environmental class II - IP65 - ABS - White - Dimensions (Ø x H) 8 x 35mm (sold in packs of 10)</p> <p>Item no. F106415 TF</p>		<p>415 TFM </p> <p>As 415 TF but brown</p> <p>Item no. F106415 TFM</p>

	415 TF2  As 415 TF but with 2m sheathed cable		314  Magnetic contact - Wire connection - Flush mounting - Environmental class III - IP65 - Brass - Dimensions (Ø x H) 8 x 12mm (sold in packs of 10)
	Item no. F106415TF2		Item no. F106314
	CTE 045  Magnetic contact - Wire connection - Surface mounting - Environmental class II - IP65 - ABS - White - Dimensions (L x H x D) 56 x 5 x 16mm (sold in packs of 5)		CTE 045M  As CTE 045 but brown
	Item no. F106CTE 045		Item no. F106CTE 045M

Reed contacts - EN 50131-2-6 security grade 1

	405 M  Magnetic contact - Terminal connection - Surface mounting - Environmental class II - IP40 - ABS - White - Dimensions (L x H x D) 60 x 13 x 13.5mm (sold in packs of 10)		405 MM  As 405 M but brown
	Item no. F106405M		Item no. F106405MM




Mechanical rod and rope contacts

	470 Rod contact for roller shutters - Wire connection (pre-wired cable) - Surface mounting - Reed contact normally closed with shutters closed - 400mm rod length - Environmental class II - Moisture- and dust-proof - Black (sold in packs of 5)		SW 912 Rope contact for roller shutters - Wire connection (pre-wired cable) - Surface mounting - 3000mm rope length - Environmental class II - IP40 - ABS - White (sold in packs of 3)
	Item no. F106470		Item no. F106SW 912
			474 Rope slide for SW 912 - Surface mounting - Zink-plated steel - Length 278mm
			Item no. F106474

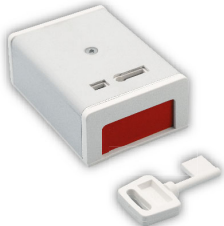






Vibration detectors

	<p>CINEM5</p> <p>Electronic vibration detector for windows/door frames - Piezoelectric magamp with self-generating power supply - 0.5...2m range (depending on the surface) - Alarm time depending on impact - Wire connection (1m pre-wired cable) - IP68 - ABS - Dimensions (L x H x D) 18 x 18 x 10mm - (sold in packs of 2)</p> <hr/> <p>Item no. F106CINEM5 (white)</p> <hr/> <p>Item no. F106CINEM5M (brown)</p>		<p>CINSND122</p> <p>Combined vibration detector with magnetic contact for metal window/door frames - Independent alarm outputs: pulses proportionate to impact (vibration detector), NC alarm output (magnetic contact) - Wire connection (pre-wired cable) - IP65 - ABS - White - Dimensions (Ø x H) 20 x 28.5mm (sold in packs of 2)</p> <hr/> <p>Item no. F106CINSND122</p>
	<p>CINSNDIP65</p> <p>Vibration detector for window grills and lattice windows - Alarm output: pulses proportionate to impact - Wire connection (1m pre-wired cable with metal jacket) - IP65 - Aluminum - Black - Dimensions (Ø x H) 22 x 56mm (sold in packs of 2)</p> <hr/> <p>Item no. F106CINSNDIP65</p>		<p>444</p> <p>Vibration detector for window/door frames and walls with small thickness - Alarm output: pulses proportionate to impact - Wire connection (2m pre-wired cable) - IP54 - ABS - White - Dimensions (L x H x D) 33 x 32.7 x 23.7mm (sold in packs of 5)</p> <hr/> <p>Item no. F106444</p>
	<p>CINSND1</p> <p>Vibration detector for window/door frames - Alarm output: pulses proportionate to impact - Wire connection (pre-wired cable) - Flush mounting - IP30 - ABS - White - Dimensions (Ø x H) 13 x 14mm (sold in packs of 2)</p> <hr/> <p>Item no. F106CINSND1</p>		<p>CINSND3</p> <p>Vibration detector for window/door frames - Alarm output: pulses proportionate to impact - Terminal connection (2 contacts + 2 tamper of the cover) - Surface mounting - IP30 - ABS - White - Dimensions (L x H x D) 51 x 28 x 17mm (sold in packs of 2)</p> <hr/> <p>Item no. F106CINSND3</p>

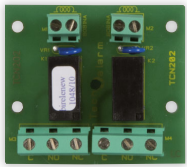

Flood detectors

	<p>RPL118</p> <p>Flood detector for monitoring flooding of ditches and interspaces - Relay output with 1A 30V DC contacts - Operating voltage 10V...30V DC - Wire connection (1m pre-wired cable) - Surface mounting - IP68 - ABS - Black - Dimensions (L x H x D) 91 x 72 x 39mm</p>		<p>1450</p> <p>Flood detector - Programmable sensitivity - 12V or 24V power supply - Relay output with change-over contact - Connection of max. 10 supplementary probes - Terminal connection - Surface mounting - IP40 - ABS - White - Dimensions (L x H x D) 64 x 96 x 25mm (sold in packs of 2)</p>
	<p>Item no. F106RPL118</p>		<p>Item no. F1061450</p>
			<p>1450S</p> <p>Supplementary probe for 1450 (sold in packs of 2)</p>
			<p>Item no. F1061450S</p>


Panic buttons

	<p>484I </p> <p>Panic button with self-retaining device - Alarm stop and functional reset with reset key - Red/green status indication - NC hold-up and tamper outputs - Anti-tamper protection: anti-opening - Environmental class II - IP32 - Aluminum-plated ABS - Gray/white - Dimensions (L x H x D) 52 x 72 x 28mm</p>		<p>484ME </p> <p>Panic button - Alarm memory reset by the control panel - Memory LED - 12V power supply - NC hold-up and tamper outputs - Anti-tamper protection: anti-opening - Environmental class II - IP32 - Aluminum-plated ABS - Gray/white - Dimensions (L x H x D) 52 x 72 x 28mm</p>
	<p>Item no. F106484I</p>		<p>Item no. F106484ME</p>
	<p>476 </p> <p>Panic button with sealable protection lid - Actuation causes break of membrane - Reset through replacement of the membrane - Hold-up and tamper outputs: change-over micro-switch - Anti-tamper protection: anti-opening - Environmental class II - IP32 - Aluminum-plated ABS - Gray/white - Dimensions (L x H x D) 85 x 85 x 48mm</p>		<p>485ME</p> <p>Foot-operated panic button - Alarm memory reset by the control panel - Memory LED - 12V power supply - NC hold-up and tamper outputs - Anti-tamper protection: anti-opening - Environmental class II - IP40 - Laminated steel - Gray/white - Dimensions (L x H x D) 400 x 130 x 80mm</p>
	<p>Item no. F106476</p>		<p>Item no. F106485ME</p>


Additional relay boards

	<p>BIRELE</p> <p>Relay board with 2 independent control inputs and relay outputs with potential-free contact - 2 signal relays (0.3A @ 24V DC) - Environmental class II - Dimensions (L x H x D) 59 x 52 x 20mm</p>		<p>BOX BIRELE</p> <p>Casing for BIRELE - ABS - White - Dimensions (L x H x D) 70 x 117 x 52mm</p>
	<p>Item no. F127BIRELEN</p>		<p>Item no. C110BOXBIRELE</p>

Optical repeaters

	<p>RIP</p> <p>LED light - Operating voltage 9V...30V - Dimensions (L x H x D) 78 x 45 x 25mm</p>
	<p>Item no. F106RIPOTTR (red)</p>
	<p>Item no. F106RIPOTTV (green)</p>
	<p>Item no. F106RIPOTTG (yellow)</p>

Junction boxes

	<p>1465</p> <p>Self-protected junction box - 20 connection terminals for cables with 2.5sqmm max. section) - Environmental class III - IP54 - Epoxy varnished aluminum - White - Dimensions (L x H x D) 95 x 95 x 43mm</p>
	<p>Item no. F1061465</p>



Merchandising

Demo-cases - Display equipment
Apparel - Deterrent signs and labels

Tecnoalarm marketing communication involves all the major media channels. With a focus on enhancing the brand, strengthening the goals achieved so far and emphasizing the excellence of the products, Tecnoalarm promotes the use of product demonstration tools, display equipment, coordinated clothing and accessories able to incentivize and boost the sales activities.

Demo-cases



EVOLUTION DEMO-CASE




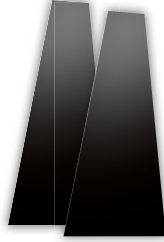




The demo-case trolley includes a complete and operational system composed of the following products:

ITEM	DESCRIPTION	CODICE
EV 10-50	Control panel	F101EV10504G-IT
EV MOD BWL	Wireless receiver-transmitter	F102EVMODBWL
EV 430 PROX	Touch-screen console	F127EV430PROX
EV LCD-AL BWL	Wireless console	F102EVLCDALBWL
EV KEY	Transponder	F103EVKEY
EV TP SKN	RFID reader interface	F127EVTPSKN
EV ATPROX	RFID reader	F102EVREDWABWL
EV CMD BWL	Wireless key	F102EVCMDBWL
TWINTEC MASK BUS	Dual technology detector	F102TWINMB18/V
WINBEAM/S	Active infrared battier for protection of openings, windows and doors	F102WINBS60
EV REDWAVE BWL	Wireless dual technology detector for protection of openings, windows and doors	F102EVREDWABWL
EV GLOB BWL	Wireless passive infrared detector	F102EVGLOBBWL
EV CAM BWL	Wireless passive infrared detector with integrated camera	F102EVCAMBWL
EV IR BWL	Wireless passive infrared detector	F102EVIRBWL/V
EV TX BWL	Wireless magnetic contact for protection of openings, windows and doors	F102EVTXBWL
EV TXS BWL	Wireless magnetic contact for protection of openings, windows and doors	F102EVTXSBLWL
EV SAEL BWL	Wireless piezoelectric siren for outdoor use	F102EVSaelBWL
EV SIREL BWL	Wireless piezoelectric siren for indoor use	F102EVSIRELBWL
EV OUTRP BWL	Wireless output expansion	F127EVOUTRPBWL
EV DOMO	Automation module	F127EVDOMO
EV SMK BWL	Wireless optical smoke detector	F102EVSMBWL
EV TERM BWL	Wireless temperature and humidity detector	F102EVTERMBWL












N.B. The demo-cases are assembled on request. Please refer to the Sales Department.

Display equipment



Merchandising

EASEL		ROLL UP BANNER	
	Double-sided easel for 2 exhibition panels - Transparent Plexiglas® - Dimensions (L x H x D): 700 x 1910 x 750mm		Roll up banner for retail outlets and show rooms - Dimensions (L x H): 800 x 2000mm
	Item no. P100ESPPLXI		Item no. P100ROLLUPALARM
EXHIBITION PANEL		COVER PLATE	
	Exhibition panel - Aluminum composite - Brushed finishing - Dimensions (L x H x D) 1000 x 1000 x 3mm		Cover plate for double-sided easel - Black Plexiglas® (sold in packs of 2)
	Item no. P100ESPAN		Item no. P100EPCART
COUNTER DISPLAY		SIDEBOARD	
	Counter display - Suitable for wall mounting or placing on sideboard - Black Plexiglas® - Dimensions (L x H x D) 1000 x 1060 x 150mm		Sideboard with 2 shelves for advertising brochures - Suitable for placing counter display - Transparent Plexiglas® - Dimensions (L x H x D) 1000 x 840 x 300mm
	Item no. P100ESPPLX01		Item no. P100BASEESP
SHOPPER		MOUSE PAD	
	Large shopping bag with doubles handles and Tecnoalarm and Tecnofire logos - TNT - White - Dimensions (L x H x D) 46 x 50 x 18cm		Mouse pad with Tecnoalarm and Tecnofire logos - Dimensions (L x H x D) 23 x 19 x 0.3cm
	Item no. ZSHOPPER		Item no. P100MOUSEPAD















































Apparel

BASEBALL CAP		JACKET	
	Baseball cap with Worldwide from Italy logo - Blue		Jacket with Worldwide from Italy logo - Blue
	Item no. ZCAPPELLINO		Item no. ZGIUBBOTTO
TIE		VEST	
	Tie with Tecnoalarm logo - Gray		Working vest with Worldwide from Italy logo - Blue
	Item no. ZCRAVATTA		Item no. ZGILET
SWEATSHIRT		SWEATSHIRT	
	Sweatshirt with Worldwide from Italy logo on the front - Gray		Sweatshirt with Worldwide from Italy logo on the front and on the back - Gray
	Item no. ZFELPA		Item no. ZFELPAWW
SHIRT		POLO SHIRT	
	Shirt with Worldwide from Italy logo - White		Polo shirt with Worldwide from Italy logo - White
	Item no. ZCAMICIAD (female)		Item no. ZPOLO
	Item no. ZCAMICIA (male)		
VEST		TROUSERS	
	Fleece-lined vest with Worldwide from Italy logo - Blue		Trousers with Tecnoalarm logo - Blue
	Item no. ZSMANICATO		Item no. ZPANTALONI
BACKPACK			
			Laptop backpack with Tecnoalarm and Tecnofire logos - Black
			Item no. ZZAINO

Deterrent signs and labels

DETERRENT SIGN		DETERRENT LABELS	
	Deterrent sign - Aluminum composite - Dimensions (Ø x H) 300 x 3mm Available in several languages		Deterrent labels - Diameter: 180mm, 90mm, 50mm Available in several languages
	Item no. P100CARTELALL		Free-of-charge

















ICONOGRAPHY
















Software		Standards and certifications			
	PROGRAMMING Local/remote programming software		IMQ-EN 50131 EN 50131 certification by IMQ		ASYNC@WL Device compatible with asynchronous wireless protocol
	TCP/IP Remote management software		IMQ-CSV Device provided with Certificate with Surveillance issued by IMQ		TECNOVISION Video integration for EV systems
	MONITORING Local/remote monitoring software		EN EN 62368-1 50130-4 Device certified to the indicated standards		RSC® Device featuring Remote Sensitivity Control technology
Telematic services			EN EN 62368-1 50130-4 Device certified to the indicated standards		RDV® Device featuring Remote Digital Verification technology
	TCS Tecnoalarm Connect Service for end-user applications		SECURITY GRADE 2 EN 50131 security grade 2 certification		ZONES Zones managed by the system in both the basic and the maximum configuration
	DDNS TECNOALARM Tecnoalarm Dynamic Domain Name System service		SECURITY GRADE 3 EN 50131 security grade 3 certification		THERMOSTAT ZONES Number of zones managed by the thermostat
	MAIL SERVER TECNOALARM Tecnoalarm Mail Server for alarm notifications by email		SECURITY GRADE 4 EN 50131 security grade 4 certification		CONVENTIONAL ZONES Zones managing conventional detectors
	SNTP Synchronization of control panel clock with an NTP server		CLASS II EN 50131 environmental class II (indoor general)		SENSOR BUS ZONES Zones managing RSC® detectors
Apps			CLASS III EN 50131 environmental class III (indoor and sheltered outdoor)		ZONE BUS ZONES Zones managing Zone Bus detectors
	evolution App for EV systems		CLASS IIIA EN 50131 environmental class IIIA (indoor and sheltered outdoor)		OUTPUTS Alarm and/or signaling outputs available
	myTecnoalarm TCS App for TP systems connected via TCS		CLASS IV EN 50131 environmental class IV (outdoor general)		PROGRAMS MANAGED Number of programs managed
	myTecnoalarm App for TP systems connected via TCS, DDNS or static IP address	Systems			REMOTE CONTROLS Number of remote controls managed
Accessory management			SERIAL BUS RS485 serial bus for the connection of conventional devices		CODES Number of access codes managed
	ADVANCED PROGRAMMING System featuring the advanced programming level		SENSOR BUS Serial bus for the connection of RSC® detectors		RFID KEYS Number of transponders managed
	SUPERVISOR System compatible with supervision software		SIREN BUS Serial bus for the connection of RSC® signaling devices		WL KEYS Number of wireless keys managed
	TECNO OUT System featuring the Tecno Out protocol for connection to third party software controllers		WL BUS Serial bus for the connection of the EV wireless receiver-transmitters		RFID CARD MANAGEMENT System managing RFID cards concomitantly or alternatively to transponders
			EV@BWL Device compatible with 2-way wireless protocol		FINGER PRINT MANAGEMENT System accepting user authentication by finger prints
















	ACCESS PERIODS Access periods available for limitation of access to the protected area
	TIMERS Timers available for the automatic management of programs and remote controls
	CYCLIC TIMERS Timers available for the automatic execution of specific functions, such as test call
	CALENDAR System providing a calendar with the indicated number of years
	THERMOSTATS Number of thermostats managed
	EVENT BUFFER CAPACITY Number of events logged in the control panel memory
	MEMORY Optional micro SD for photo recording (Video Verification)
	VOCABULARY System featuring voice synthesis with a hard-programmed vocabulary
Communication devices	
	GSM LTE On-board or plug-in GSM interface
	GSM-LTE External GSM interface
	IP On-board or plug-in LAN interface
	PSTN On-board PSTN interface
Protocols and remote management	
	IP LTE Device featuring IP/LTE protocols
	RT REPORTING TIME Maximum time for reporting failures of alarm transmission equipment (EN 50136-1)
	TCP/IP Device featuring TCP/IP communication protocols

	VoLTE Management of voice calls over LTE
	SMS Automatic alarm notification through SMS
	LTE DATA Proprietary Tecnoalarm data protocol
	C.ID LTE DATA Standard Contact ID data protocol
	CALL BACK Call back function of Tecnoserver TCP/IP using 4G standard
	KEEP ONLINE Keep online function of Tecnoserver TCP/IP
	TECNOALARM SOFTWARE System management through Tecnoalarm software
	CMS SERVICE Management of proprietary protocols for connection to third party CMS

Control units	
	CODES Management of numeric access codes
	PROXKEY READER Device equipped with RFID reader
	CARD READER Device equipped with RFID card reader
	FINGER PRINT READER Device equipped with biometric finger print reader
	PROGRAMS MANAGED Number of programs managed
	VOICE SYNTHESIS Device featuring voice synthesis
	TOUCH SCREEN Device equipped with a display of the indicated size (inch)
	FLOOR PLANS Device featuring floor plan management
	ICONS Number of icons managed per floor plan
	FINGER PRINTS Number of finger prints managed
	PRIVACY PROTECTION Finger prints cannot be traced back to the user
	ANTI-SPOOFING Device featuring fake finger protection
	UNITS MANAGED Number of control units managed
	STEEL MEMBRANE Device equipped with capacitive steel membrane
	VANDAL-PROOF Vandal-proof casing

Detectors	
	IR + MW Dual technology (infrared + microwave) detector
	3 IR AND LOGIC Triple infrared detector featuring AND detection logic
	3 IR AND - OR LOGIC Triple infrared detector featuring AND/OR detection logic
	3IR+MW AND LOGIC Triple infrared and microwave detector featuring AND detection logic
	ID1 2 IR AND LOGIC Detection unit composed of dual infrared detector featuring AND detection logic
	ID1 IR + MW AND LOGIC Detection unit composed of infrared and microwave detector featuring AND detection logic
	ID2 REED OR CONTACT Detection unit composed of reed and/or external device
	OR AND LOGIC Device featuring OR, AND detection logics
	AND WALK LOGIC Device featuring AND, WALK detection logics
	OR-AND WALK LOGIC Device featuring OR, AND, WALK detection logics
	WIDE ANGLE Detector equipped with wide-angle lens
	CURTAIN Detector equipped with curtain lens
	LONG RANGE Detector equipped with long-range lens
	PET IMMUNE Detector equipped with pet-immune wide-angle lens
	CEILING MOUNT Ceiling mount casing
	TEMPERATURE HUMIDITY Temperature and humidity detector

	ANTI-MASK Device featuring anti-masking protection
	SELF TEST Device featuring self test function
	TEMPERATURE COMPENSATION Device featuring temperature compensation function
	RANGE Maximum range in meters
	8 BEAMS Number of beams produced
	SYNC MODE Device featuring synchronization mode
	RANGE Maximum range in meters
	4 CHANNELS Number of transmission hannels managed
Sirens	
	SOUND LEVEL Device featuring the indicated sound level (dB)
	SELF-POWERED Device equipped with proper power supply
	SOUND TYPE SETTING Programmable sound type for alarm signaling
	ANTIFOAM PROTECTION Device featuring anti-foam protection
	ANTI-DRILLING PROTECTION Device featuring anti-drilling protection
	SELF TEST Device featuring self test function
	2 ALARM CONTROL INPUTS Number of alarm control inputs managed

Wireless Evolution	
	868MHz 2-WAY Device working on 868MHz frequency band
	WIRELESS EXTENDER Wireless range extender
	868MHz END-TO-END TRANSCEIVER Wireless receiver-transmitter working on 868MHz frequency band
	ADAPTIVE DYNAMIC ROUTING Device featuring adaptive dynamic routing on the network
	TRANSCEIVER TEST Wireless receiver-transmitter test function
General	
	INTERNAL EXPANSION Expansion module mounted inside the control panel casing
	ABS BOX Casing primarily made of ABS
	STEEL BOX Casing primarily made of metal
	ALUMINUM BOX Casing primarily made of aluminum
	PC BOX Casing primarily made of polycarbonate
	ASA BOX Casing primarily made of ASA
	USB PORT Device equipped with USB port
	IP Ingress protection class of the casing
	POWER SUPPLY Device providing a proper power supply unit
	RAIL MOUNT BOX Casing mounted on DIN rail

GENERAL TERMS OF SALE AND DELIVERY

1. PREMISES

This document contains the general terms of sale and delivery that govern the business relations between Tecnoalarm S.r.l. (Seller) and its customers (Buyers), for any type of product and service. Unless otherwise specified, these terms are applied to all Buyers, in this case professional customers. The terms are an integral part of the "Tecnoalarm General Catalogue", and are considered implicitly known to and accepted by the Buyer when placing the purchase order. The terms, if no other agreement (void if not in written form) exists, are to be considered as binding for the sale of any product of Tecnoalarm. The Seller reserves the right to change them without notice and without prejudice to the validity of previous terms in force at the time of the order. Any different terms and conditions used by the Buyer shall not apply to the relations between the parties if not accepted in writing and, in any case, shall be coordinated with these terms, unless expressly exempted by written act. The acceptance of these terms and the accompanying warranty conditions, as well as all the subsequent relations, agreements, and generally, the behaviors of the parties eventually governed by the same, do not entail the transfer to the Buyer of any exclusive right, nor the establishment of relations of granting, commission and mandate, with or without representation. Equally, they do not give the Buyer the right to market the Tecnoalarm products via e-commerce, or any other form of mail order sales nor to use in any form the mark, the name or other distinctive marks of Tecnoalarm.

2. PURCHASE ORDERS

No purchase order sent by the Buyer shall be binding for the Seller if not expressly accepted in writing. The order accepted by the Seller constitutes a firm and irrevocable proposal of contract. Sending an order and collecting the goods by the Buyer shall entail the contextual and integral recognition, knowledge and acceptance of the terms and the attached warranty conditions. The Seller is not bound, except with the express confirmation or subsequent ratification, by the declarations of its agents, business procurers, distributors and other commercial auxiliaries. The acceptance without expressed reservation by the Buyer of products non-compliant in terms of type or quantity, or sent with conditions other than those contained in the request of the Buyer or the offer of the Seller, implies the acceptance by the Buyer of the supply and the terms applied by the Seller. These reservations, even if made in the form of clarifications or corrections to the terms of delivery, shall not be effective if they will not be formulated by the Buyer in writing, immediately after the receipt of the goods.

3. PLACING OF ORDERS

Except as provided in the previous article, the Seller only accepts orders placed according to the procedure provided for in this article. All orders must be submitted in writing and complete in every part needed for the correct identification of the requested products. The Buyer may request the cancellation or modification of the order only before the execution of the same, through written communication. The Seller has the right to not accept changes or cancellations if the order is already being processed. The changes and the cancellation of the purchase orders, to be effective, must be expressly accepted by the Seller in writing.

4. DELIVERY OF THE PRODUCTS

No purchase order sent by the Buyer will be fulfilled by the Seller if not expressly accepted. Unless otherwise agreed in writing between the parties, the Seller shall deliver the products "ex works" (EXW) Turin, one of his subsidiaries or decentralized warehouses, within the terms of delivery agreed on the acceptance of the order. If required, the Seller will take care of the transport of the products and - in the absence of specific instructions of the Buyer - will choose the carrier that it deems appropriate. Unless otherwise specifically agreed in writing, the transport will take place with the clause "free carrier" (FCA) at the expense and risk of the Buyer. The cost of the transport and packaging, unless otherwise agreed, will be added to the price of the products purchased. The delivery deadline shall be deemed to be respected if the goods are promptly delivered to the carrier. In any case, the Seller shall not be liable for transport delays that cannot be imputed to him. In the case of delayed delivery, the Buyer may cancel the part of the order not delivered only after notifying the Seller, by registered letter with acknowledgement of receipt or with certified e-mail, his intention to do so, and after granting 15 weekdays, from receipt of such communication, within which the Seller can deliver all the products specified in the reminder and not yet delivered. It is excluded any liability of the Seller for damages derived from delayed or total or partial non-delivery of the purchase order. In case the Buyer fails to collect the goods within the agreed time, he will have to refund the Seller the storage costs until delivery or sale of the goods to third parties, which may take place after 30 days from the originally agreed delivery date. Failure or delay of fulfilment of a partial delivery does not implicate the non-fulfilment of the delivery obligation in itself and will have no effect on the other partial deliveries.

5. PRICES AND TERMS OF PAYMENT

The prices specified by the Seller in quotations, order confirmations and invoices are based on the price list expressed in Euro, excluding VAT, in force on the day of the order confirmation. Unless otherwise specified, all prices are net of transportation, and any other tax, fee and locally due rate. The applicable taxes are those in force on the date of billing. Any discount on the prices charged by the Seller shall only be applicable if agreed to in writing and only in case of full compliance with the payment terms fixed. In no case will the discounts offered be extendable to supplies, also of similar goods or identical products, performed prior to or subsequent to the order to which the discounts apply. If the costs of raw materials and/or the workforce used by the Seller should suffer changes such as to modify by more than 10% the original balance, the price will be adjusted in proportion, with the option of the parties to terminate the agreement within 10 days from the notice of the variation in the price. The invoices of the Seller are accepted if they are not challenged in writing by the Buyer within 14 days of their receipt. Unless otherwise specifically agreed in writing, the method and term of payment are those previously agreed with the Seller and stated in the customer file. Any payments made to the agents of the Seller must be previously authorized in writing by the latter. According to this, any payment made to subjects not previously authorized for collection shall not discharge the obligation. Any credit instruments accepted by the Seller is subject to collection. Any delay or irregularity in the payment shall give the Seller the right to suspend deliveries and/or terminate the contracts and/or cancel orders in progress, even if not related to the payments in question, as well as the right to compensation for any damages. From the date of expiry of the payment, the default interests at the legal rate provided for in the Decree 231/2002, amended by the Decree 192/2012, shall be entirely due. In no event the Buyer will be authorized to reduce or offset the price with any credit, however occurring, against the Seller, unless prior written permission of this is granted. For the imputation of payment, reference will be made in any case to the provisions of art. 1193 par. 2 C.C. [Italian Civil Code]. The Buyer is obliged to complete payment, even in the event of a dispute or controversy, according to the condition "solve et repete".

6. RETENTION OF TITLE

In the case where the payment is carried out, in whole or in part, after delivery, the delivered products shall remain the property of the Seller up to the full payment of the agreed price, within the meaning of art. 1523 C.C. [Italian Civil Code]. The Seller shall have the right to repossess any product with retention of title and the Buyer shall bear the costs. The Seller may withhold as penalty any sum received as payment, without prejudice to the right to compensation for the greater damage. If the Buyer relinquishes the products to a third party, the rights of the Seller shall be transferred to the resale price up to the full payment.

7. TECHNICAL DESCRIPTIONS AND SPECIFICATIONS OF THE PRODUCTS

The technical data, dimensions, features, specifications, colors, weights, prices and any other data relating to the products contained in the technical and advertising documentation of the Seller, as well as the characteristics of the samples and models which may be provided to the Buyer, are merely indicative and are not binding, unless they were expressly mentioned in the offer and/or in the written acceptance by the Seller. Any statements or advertising of third parties in no way bind the Seller. Any technical design or document provided to the Buyer that enables to manufacture the products sold, or parts of them, remains the exclusive property of the Seller and shall not be copied, reproduced, transmitted to third parties or however used without the prior written consent. In addition, the Seller remains exclusive holder of all intellectual or industrial property rights relating to the products. The Seller reserves the right, at its sole discretion and without the need for any notice, to make the changes deemed most appropriate that do not adversely affect the functionality, the quality, and the aesthetics of the product itself, with the only obligation to inform the Buyer about the changes.

8. E-COMMERCE

The Seller prohibits the commercialization of its products via e-commerce, whether a single component or the entire system is concerned. The Seller will make use of all the means provided by the law to prevent this from happening and to obtain the sanctions on those who act in violation and/or circumvention of the ban.

9. WARRANTY OF THE SELLER

Unless otherwise agreed in writing between the parties, the Seller ensures that its products (with the exception of those parts which are not directly produced) are free from flaws/defects for a period of two (2) years from the date of delivery of the goods to the Buyer. The warranty does not operate with reference to those products whose defects are due to:

- a. damage in transit
- b. improper use or negligent handling
- c. failure to comply with the Seller's instructions relating to the assembly and/or operation of the products
- d. lack of ordinary maintenance and preservation of the products
- e. normal wear and tear of moving parts
- f. repairs and/or changes made by the Buyer or by third parties without the prior written permission of the Seller.

The Seller will, in its sole discretion, replace or repair the defective or faulty products or parts, provided that the Buyer's claim is covered by the warranty and notified within the deadlines referred to in this article. The Buyer shall notify the Seller, under penalty of loss of the right to appeal, of the presence of patent defects within eight days from delivery of the products, or hidden defects or those not detectable by reasonable inspection within eight days from discovery. After the above deadlines have expired, the products are considered as permanently accepted. Claims must be made in writing and must indicate in detail the alleged defects or nonconformities, as well as the references to the relevant invoice, DDT or order confirmation of the Seller. In addition, upon request of the Seller, adequate photographic documentation must be attached to the claims. Incomplete claims will not be covered by the warranty. The products subject to complaint should be immediately sent to the head office of the Seller, or to any other place that the latter will indicate from case to case, at the costs and expenses of the Buyer, unless otherwise agreed between the parties, in order to allow the Seller to complete the necessary checks. The warranty does not cover any damage or defects of the products resulting from, or directly related to, parts assembled/added by the Buyer. If a claim is totally or partially unfounded, the Buyer shall indemnify the Seller for all the costs incurred for the checks. In every case, the Buyer shall not assert any warranty rights towards the Seller if the products have not been paid according to the terms and conditions agreed. The Seller shall not be responsible for any damage arising and/or connected to defects of the products, except in the case of his proven deliberateness or gross negligence. In any case, the Seller shall not be liable for incidental or consequential damages of any nature, such as losses or lost profits arising from inactivity of the Buyer.

10. LEGAL WARRANTY

The Seller guarantees the quality of the products to its direct customers. This warranty, the duration of which is determined by the law, includes possible initial defects of the products or, in any case, defects existing at the time of delivery. In application of the terms of the warranty, the Seller ensures the repair, revision, update or restoration of the products. The warranty excludes any responsibility by the Seller for direct or indirect damages caused by the non-functioning of the products in consequence of installation and/or programming, as these activities and their consequences are the exclusive responsibility of the installer.

11. RESPONSIBILITY OF THE MANUFACTURER

The products with Tecnoalarm brand are manufactured in accordance with the regulations in force in Italy and in the European Union. The Seller is responsible for damages to persons or property arising from the products sold, only in the event of his proven gross negligence in the manufacture of the products themselves. In no event, it shall be considered liable for incidental or consequential damages, loss of production or lost profits. Except as provided above, the Buyer shall not consider the Seller liable in all the actions of third parties based on liability arising from products sold to them and shall indemnify for the damage caused by the claims in question.

12. MANUALS

The Seller prohibits the publication of the installation and programming manuals of the products on the web, as the content of these manuals is to be considered as strictly confidential, also with the aim to protect the final customers in relation to the requirements for the protection of property and life.

13. FORCE MAJEURE

In all cases of force majeure occurring (including but not limited to: lack of supply of raw materials, significant predictable increases of the prices of the same, fire, flood, disturbances in the transport sector, strikes, lock-outs or other similar events, which prevent or reduce the productive capacity of the Seller or block the transport between the plant of the Seller and the place of destination of the products), the Seller shall be entitled to an extension of up to 90 days, extendible to up to 180 days in the most serious cases, of the deadline for the delivery of the products, provided that it promptly notifies in writing the Buyer about the occurrence of force majeure. Should the condition of force majeure subsist on expiry of the above time limits, the Buyer may terminate this agreement by giving written notice to the Seller by means of registered letter with acknowledgement of receipt or certified e-mail.

14. CHANGES AND INTERPRETATION OF THE TERMS

For the interpretation of these terms, only the original Italian text shall be considered legally binding. Unless otherwise specified, every reference to price lists, general terms of sale and delivery or other documents from the Seller or third parties is meant as referring to the above mentioned documents in force at the time of the reference itself. Any modification or integration made by the parties to the agreements to which these terms apply, must be made in writing, otherwise they will be void. The derogation to one or more provisions of these terms should not be interpreted extensively or by analogy and does not imply the desire to waive the terms in their entirety.

15. APPLICABLE LAW

For whatever not expressly provided in these terms, the rules laid down by the Italian law, or, alternatively, the uses and practices, shall apply. Since international sales are not explicitly regulated by these terms, these will be governed by the Vienna Convention on the International Sale of Goods of 1980. For the interpretation of the terms of return and other commercial terms possibly used by the parties, refer to the INCOTERMS of the International Chamber of Commerce in Paris. Any foreign uses and practices are not binding in any way for the Seller.

16. DISPUTES AND COMPETENT COURT

For any disputes regarding or in any way connected to the agreements to which these terms apply, the only competent Court is that of Turin, Italy.

17. CONFIDENTIALITY

Any production technology and/or information of the parties (including expedients, design and information) whether or not patented, shall be treated as essentially confidential and shall not be used or disclosed in the absence of prior written permission.

18. FINAL PROVISIONS

Any communication between the parties shall be sent to the respective addresses resulting from the business correspondence exchanged. If the Seller fails to: a. apply one of the present terms - b. require to the Buyer to perform any provision of these terms, this may not be construed as present or future waiver of that provision, nor in any way affect the right of the Seller to have each of the provisions executed in the future. The express waiver by the Seller of any of the provisions of these terms does not constitute a waiver to their future respect by the Buyer. The agreement may not be transferred in whole or in part without the prior consent of the other party.

The Seller declines any responsibility concerning the technical-commercial activities of design, installation and maintenance of the systems, given that, as the manufacturer, it has the obligation to adapt to the Ministerial Decree no. 37/2008 which provides that the installer, as a legally independent entity, assumes the role of an autonomous and responsible interface towards the final customer.

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