

TRIRED BUS

Passive infrared detector
for outdoor use



Tecnoalarm
Hi-Tech Security Systems

TRIRED BUS

Passive infrared for outdoor use

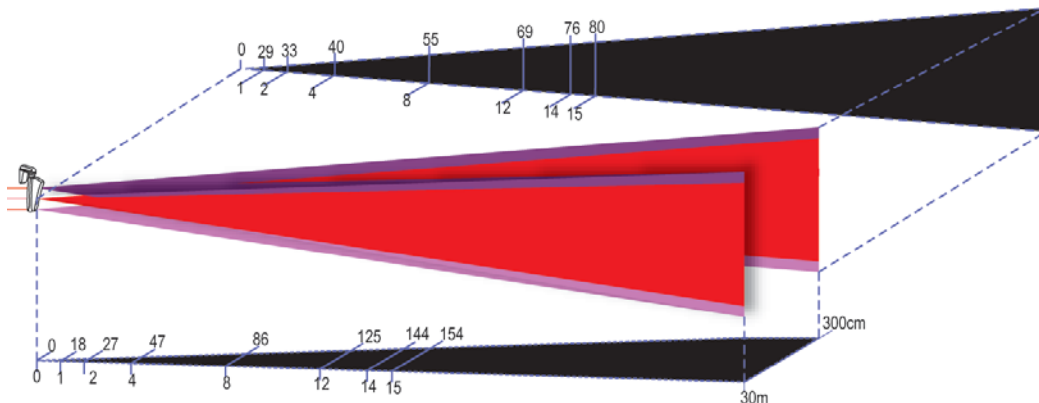
The TRIRED BUS detector features a unique protection technique with a triple passive infrared sensor. Designed for outdoor use, resistant to extreme weather conditions, it is an ideal solution for the protection of the areas close to homes, such as balconies and terraces, with ranges of up to 30 meters.

The integrated swivel mounting bracket offers ample opportunities for orientation. The range, adjustable for each beam, 8 AND detection logics and 3 independent alarm counters (1 for each beam) are only some of the many programmable parameters.

The detector features a programmable antimasking function, which adapts the detection logic to AND of 2 beams in case of a masking attempt.



Coverage diagrams



Triple infrared detector for the protection of areas close to homes, such as balconies and terraces

Performance level

During the drafting of the project of a burglar alarm system, it is necessary to thoroughly analyze the risks 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.

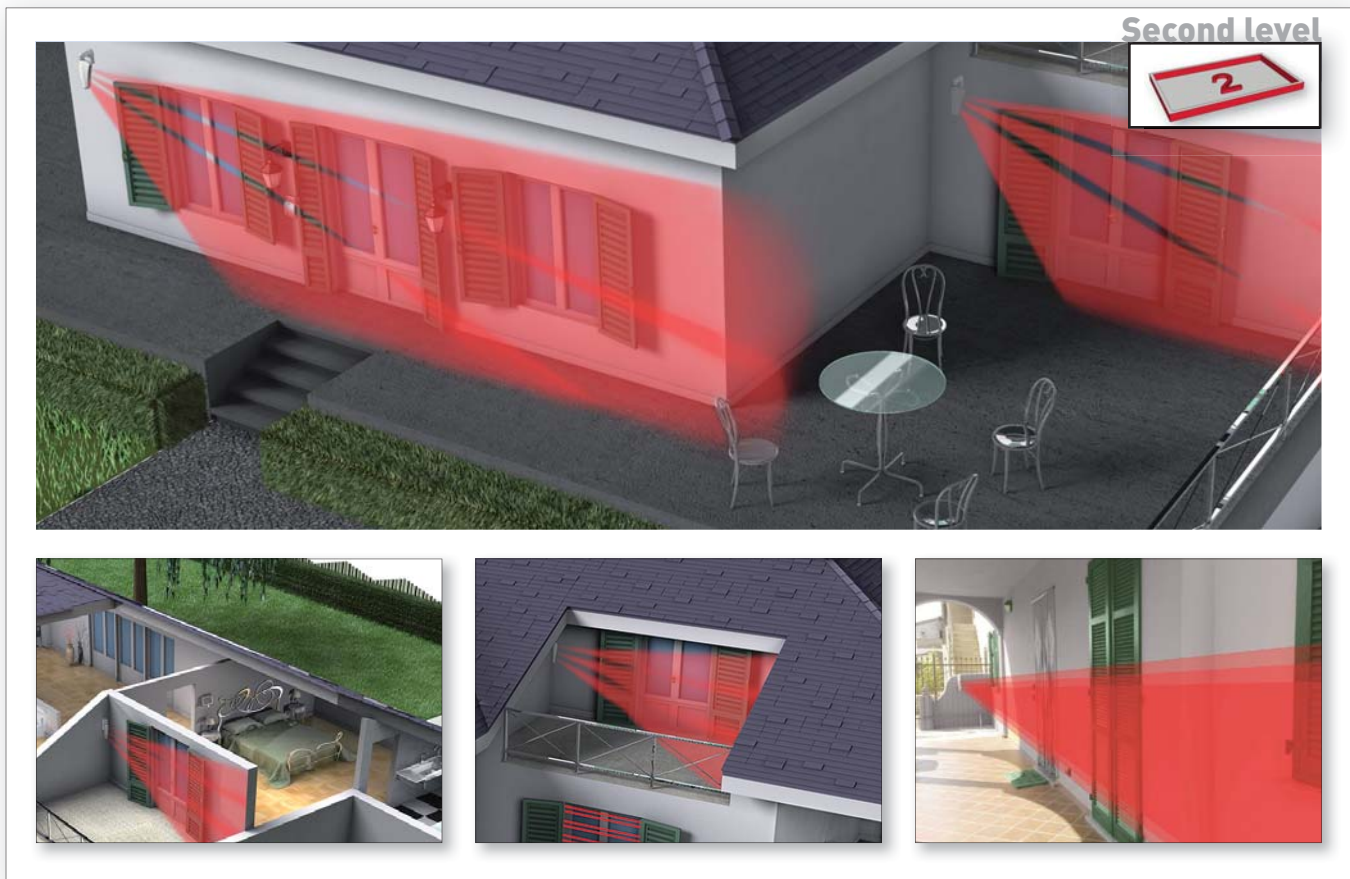
According to the assessed risks, the European standards define up to 4 performance levels, and for each of them the compulsory protection facilities.

Protection level

The standards also define **three protection levels**:

- First level** Protection of the sensible areas in the indoors (bedroom, living room etc.)
- Second level** Outdoor protection of the outside of the building (doors and windows)
- Third level** Perimeter protection of the estate (boundary wall or fence)

The three protection levels



TRIRED BUS



Compatible systems: TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

Item no. F102TRIREDBUS

TRIRED BUS

211STR10885

TRIRED BUS - Technical and functional specifications

Detection features	IR elements	3
	Infrared beams	3
	Levels (infrared beams)	3
	Max. range	30m
	Sensitivity	Programmable (16 settings)
Detection logics	AND of 2 undefined beams	1 mode
	AND of 2 defined beams	3 modes
	AND of 3 undefined beams	1 mode
	AND of 3 beams with priority	3 modes
	Pulse count	1 to 4 pulses (independent for each beam)
Anti-tamper protection	Anti-opening and anti-detachment	Micro-switch
	Antimasking	Programmable (independent for each beam)
Signaling	Alarm	✓
	Tamper	✓
	Antimasking	✓
	Failure	✓





Active status	Always active or with armed program	Programmable
Functions	Self test	Automatic (independent for each beam)
	Temperature compensation	Automatic
	Coverage test	Manual with LED and buzzer
Electrical specifications	Rated voltage	12V DC
	Operating voltage	10V DC...14.5V DC
	Stand-by and alarm consumption	13mA @ 12V DC
	Max. consumption	20mA @ 12V DC
Connection	RS485	Sensor Bus
Physical specifications	Environmental class	II
	Protection class	IP55-IPK04
	Casing	ASA
	Orientation	180° (± 90°) horiz. 20° (± 10°) vert.
	Dimensions (L x H x D)	82 x 400 x 260mm
	Weight	1.2kg
	Operating temperature	-20°C...+65°C
	Humidity (non-condensing, non freezing)	40°C - 60%, 25°C - 90%

The Tecnoalarm product range includes:

Conventional passive infrared detector for outdoor use

TRIRED								
	Item no. F102TRIRED							

Wireless passive infrared detector for outdoor use

TRIRED WL									
	Compatible protocol: ASYNC@WL								
	TRIRED WL		Item no. F102TRIREDWL 30m range						
TRIRED WL/15		Item no. F102TRIREDWL15 15m range							



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