

# *Winbeam/s Doorbeam/s*

Serial infrared barriers for doors  
and windows



The WINBEAM/S and DOORBEAM/S barriers represent the perfect solution for the access protection in both residential and industrial applications. The vast range, available in several colors and heights, and even made to measure, is characterized by an elegant and functional design which permits a perfect blending with any architectural framework.



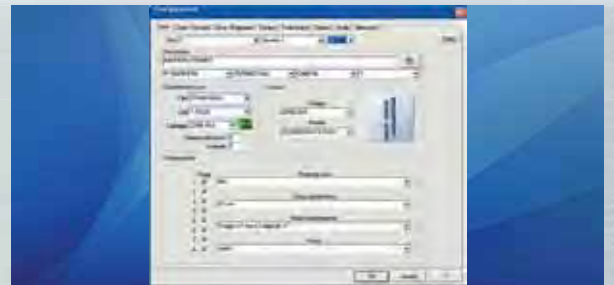
**Tecn<sup>o</sup>alarm**  
Hi-Tech Security Systems

Remote Sensitivity Control  technology permits remote monitoring of all of the system's components connecting the system through a modem at any time and anywhere, regardless of the accessibility of the installation. The possibility of adjusting all of the parameters from a distance traduces into saving of time and costs of installation and programming as well as the possibility of constant monitoring of the barrier's functional efficiency. In this way, the installer is able to provide a 24h telemaintenance service.



## Programming

Parameterization of the barriers can be made remotely through the Tecnoalarm remote management software. The software permits programming of all of the barrier's functioning parameters easily on a single table: the functioning mode of the barrier, the cable position (information needed for beam numbering), enabling or disabling of the beams, the beam power and the interruption time.



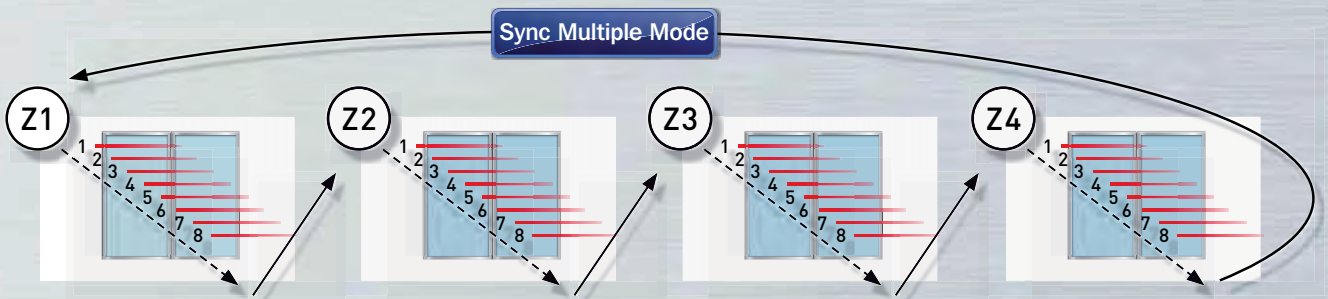
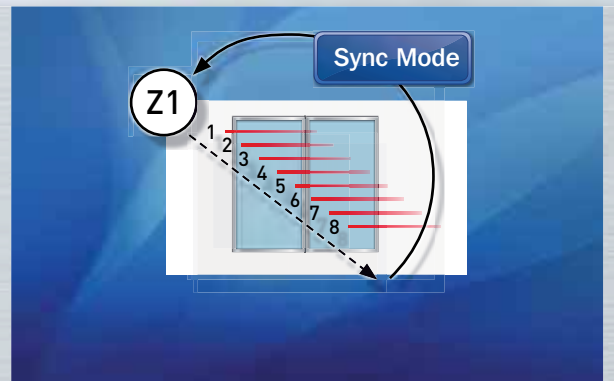
## Functioning monitor

The functioning monitor shows the status of the barrier through a graph permitting monitoring of the functional efficiency of all of the barrier's beams. For each of them alignment, interruption and exclusion are indicated.



## Synchronism

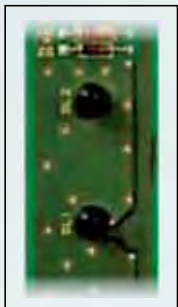
The barriers consist of a transmitter and a receiver column which provide two to eight beams, each of them being composed of two rays. The IR emission of the transmitter is controlled by a synchronism, which determines the switching on and off of one beam at a time in rapid sequence (multiplexer). The synchronism is generated by the control system and not by the barrier itself: an exclusive technique by Tecnoalarm permitting the synchronization of several barriers per installation. This solution protects the barriers against the interferences caused by the reflection of the other pairs of barriers.



# General principles and characteristics

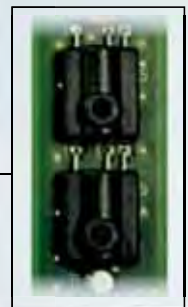
The Winbeam/s and Doorbeam/s barriers have been designed so as to offer the best perimeter protection of apartments, homes and any other kind of building.

They are high-performance devices with smart functioning features, operational flexibility, easy installation features and total compatibility with the remote management systems, thus permitting the Tecnoalarm professional installer to efficiently respond to any kind of customer requirements.



## IR transmitter

Each of the beams generated by the transmitter is composed of two independent and parallel rays. The alarm is only released if both rays are interrupted simultaneously. The 19mm distance between the two rays helps to discriminate very small targets and to reduce significantly the risk of false alarms.



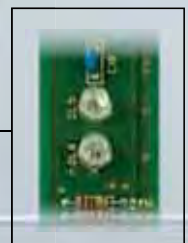
## IR receiver

The receiver is equipped with a collimator and a calibrated optical filter to prevent other light sources from disturbing it.



## Wiring

Wiring between the TX and RX column and between the barrier and the control panel is made with a 3-wires cable. Two wires provide power supply, the third one provides serial communication. Watertight plastic caps integrate the fixing holes and protect the cable output.





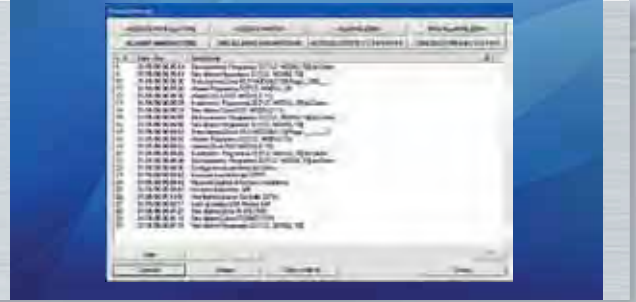
Data File



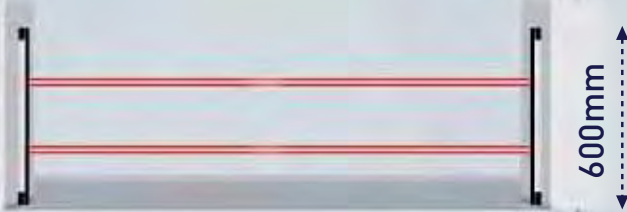
Events

## Event log

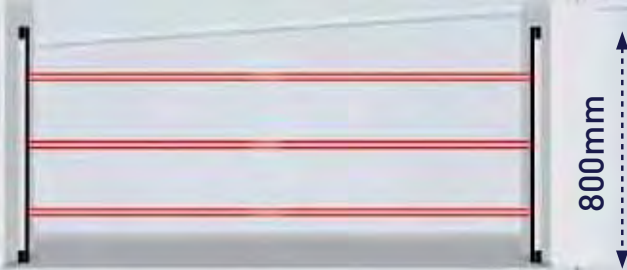
The event log of the system records the details of the alarm events released by the barriers, i.e. which and how many beams have been interrupted. Each beam is identified with a number permitting a thorough analysis and evaluation of the alarm event. The events are recorded in reverse chronological order and with indication of date and time.



WINBEAM/S 60



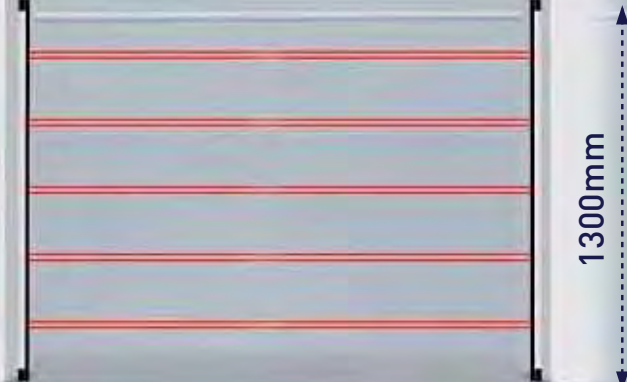
WINBEAM/S 80



WINBEAM/S 105



WINBEAM/S 130



DOORBEAM/S 155



1550mm



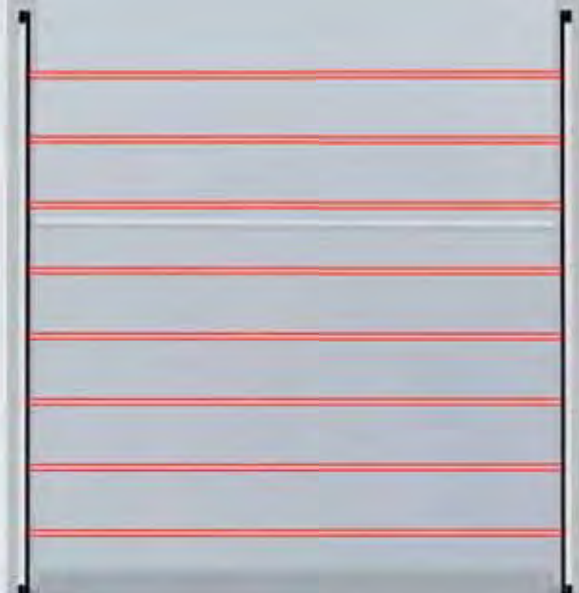
DOORBEAM/S 180



1800mm



DOORBEAM/S 205



2050mm



White



Brown



Gray metallic

MODELS	DIMENSIONS (L x H x D)	WEIGHT	BEAMS	CODE - COLOR		
				brown	white	gray metallic
WINBEAM/S 60	25 x 600 x 19mm	1kg	2	F102WINBS60	F102WINBS60BI	F102WINBS60GR
WINBEAM/S 80	25 x 800 x 19mm	1.2kg	3	F102WINBS80	F102WINBS80BI	F102WINBS80GR
WINBEAM/S 105	25 x 1050 x 19mm	1.4kg	4	F102WINBS105	F102WINBS105BI	F102WINBS105GR
WINBEAM/S 130	25 x 1300 x 19mm	1.8kg	5	F102WINBS130	F102WINBS130BI	F102WINBS130GR
DOORBEAM/S 155	25 x 1550 x 19mm	2kg	6	F102DOORBS155	F102DOORBS155BI	F102DOORBS155GR
DOORBEAM/S 180	25 x 1800 x 19mm	2.2kg	7	F102DOORBS180	F102DOORBS180BI	F102DOORBS180GR
DOORBEAM/S 205	25 x 2050 x 19mm	2.4kg	8	F102DOORBS200	F102DOORBS200BI	F102DOORBS200GR

PROGRAMMING	Beam power	3 settings (4m, 8m or 16m range)
	Cable position	2 settings
	Beams	Enabling/disabling of each single beam
	Response time	2 settings
	Alarm detection	4 settings

CONNECTION	Contact type	Zone Bus
	Cable	6m prewired cable
	Wiring	3 conductors (2 for power supply + 1 zone input)
	Synchronization	Digital automatic

POWER SUPPLY	Operating voltage	9.5V...14.5V DC
	Rated voltage	12V DC

PHYSICAL CHARACTERISTICS	Casing	Anodized aluminum
	Operating temperature	-10°C...+40°C
	Protection class	IP52
	Environmental class	II (EN 50130-5)

MODEL	min.	TX		in stand-by	RX	in alarm
		max.				
WINBEAM/S 60	7.2mA	16.6mA		10mA		18mA
WINBEAM/S 80	7.5mA	19mA		11mA		19mA
WINBEAM/S 105	7.6mA	21.5mA		12mA		20mA
WINBEAM/S 130	7.7mA	24mA		13mA		21mA
DOORBEAM/S 155	7.8mA	26.5mA		14mA		22mA
DOORBEAM/S 180	8.0mA	29mA		15mA		23mA
DOORBEAM/S 205	8.2mA	31.5mA		16mA		24mA

The barriers are compatible with all devices equipped with Zone Bus inputs.

Cut-to-measure: The barriers can be made to measure with column heights from 535mm to 2888mm.

All specifications listed in this brochure are subject to change without notice.



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