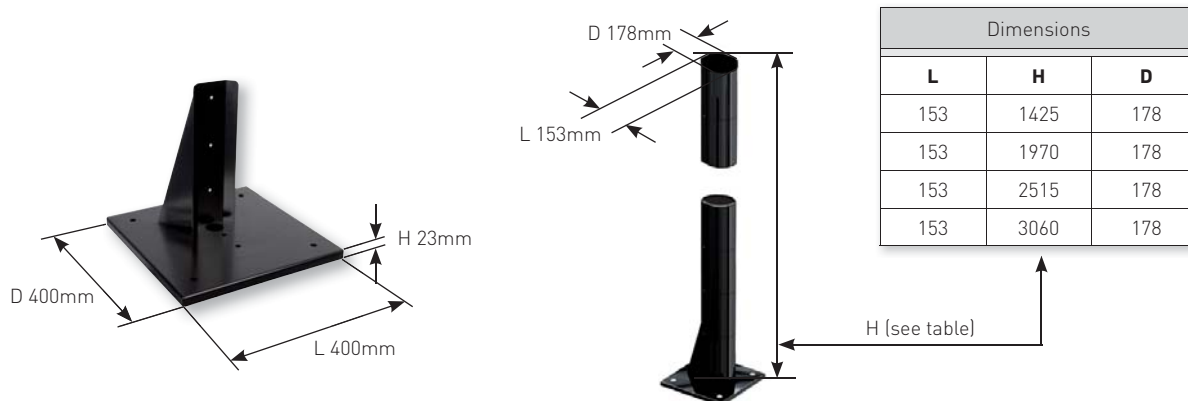


Active infrared for outdoor use

BEAMTOWER

The BEAMTOWER are active infrared barriers for perimeter protection, mounted in self-supporting aluminum columns. The great versatility and the wide variety of models allow to create not only the traditional barrier but also open and closed perimeter configurations for the protection of large outdoor areas composed of up to 8 tracks.



BEAMTOWER - Technical and functional specifications

Detection features	Range	Max. 150m	
	Beam power	Programmable (5 settings)	
	Beams BEAMTOWER/4	4	
	Beams BEAMTOWER/6	6	
	Beams BEAMTOWER/8	8	
	Beams BEAMTOWER/8 3M	8	
	Detection logic	Programmable (16 settings)	
	Horizontal orientation	180° (+/- 90°)	
	Vertical orientation	20° (+/- 10°)	
Functions	Disqualification	Programmable	
Configurations	Barrier	1 mode	
	Closed perimeter	3 modes	
	Open perimeter	6 modes	
Connection	RS485	Sensor Bus	
	Synchronization	Digital automatic	
Anti-tamper protection	Anti-opening	Micro-switch	
	Anti-climb-over	Micro-switch	
	Antimasking	Programmable	
Electrical specifications	Rated voltage	13V DC	
	Operating voltage	10.5V...14.5V DC	
	AC Powersupply (optional)	230/28V AC	
	Battery	12V/7Ah	
Physical specifications	Environmental class	IV	
	Protection class	IP45 (retrofitable)	
	Casing	Al + PC	
	Operating temperature	-25°C...+55°C	
	Wall mounting	✓	
	Floor mounting	Optional fastening base	
Consumption	Model	TX	RX
	BEAMTOWER/4	197mA	165mA
	BEAMTOWER/6	243mA	180mA
	BEAMTOWER/8	288mA	196mA
	BEAMTOWER/8 3M	288mA	196mA
	Heater modules	770mA @ 28V AC	



BEAMTOWER

OUTDOOR

RSC® TECHNOLOGY



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

BEAMTOWER/4	TX + RX 4 BEAMS	RANGE 150m	HEIGHT 1425mm	IP45
Item no. F102BEAMTW/4				
BEAMTOWER/4 RX	RX 4 BEAMS	Additional BEAMTOWER/4 receiver column for open perimeters with 2, 4, 6 tracks		
Item no. F102BEAMTW/4RX				
BEAMTOWER/6	TX + RX 6 BEAMS	RANGE 150m	HEIGHT 1970mm	IP45
Item no. F102BEAMTW/6				
BEAMTOWER/6 RX	RX 6 BEAMS	Additional BEAMTOWER/6 receiver column for open perimeters with 2, 4, 6 tracks		
Item no. F102BEAMTW/6RX				
BEAMTOWER/8	TX + RX 8 BEAMS	RANGE 150m	HEIGHT 2515mm	IP45
Item no. F102BEAMTW/8				
BEAMTOWER/8 RX	RX 8 BEAMS	Additional BEAMTOWER/8 receiver column for open perimeters with 2, 4, 6 tracks		
Item no. F102BEAMTW/8RX				
BEAMTOWER/8 3M	TX + RX 8 BEAMS	RANGE 150m	HEIGHT 3060mm	IP45
Item no. F102BEAMTW/83M				
BEAMTOWER/8 3M RX	RX 8 BEAMS	Additional BEAMTOWER/8 3M receiver column for open perimeters with 2, 4, 6 tracks		
Item no. F102BEAMTW/8RX3				

BEAMTOWER - Accessories

	HEATER KIT Thermostat and heater module for BEAMTOWER Item no. F102BERISC		TA16/2 TRANSFORMER KIT 220/28V AC 60VA transformer kit for BEAMTOWER Item no. C126TRASTA16/2
	TA/BT TRANSFORMER KIT 220/28V AC 150VA transformer kit for BEAMTOWER (to be used for extreme climates) Item no. C126TRASTA/BT		FASTENING BASE Fastening base for floor mounting of BEAMTOWER - steel with cataphoresis treatment Item no. F102BESTAFFA
	ALIGNMENT KIT Suitcase with optical viewfinder and shutters for DUALBEAM WL, QUADBEAM and BEAMTOWER Item no. F102KITMIRINO		SHUTTERS Shutters for DUALBEAM WL, QUADBEAM and BEAMTOWER (sold in packs of 10) Item no. F102KITATTENUA
	FIBER OPTIC CONVERTER Converter for the 2km extension of the serial bus with fiber optic cables Item no. F130CONVFIBRA		MONITOR 868 Wireless receiver for alignment of DUALBEAM WL, QUADBEAM, BEAMTOWER and EXPLORER BUS Item no. F102MONITOR868

MODBEAM modules

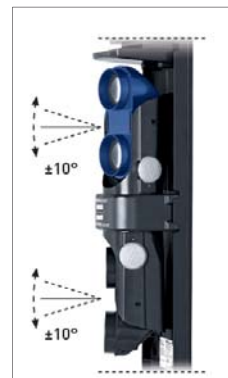
The MODBEAM lens modules are divided into transmitter and receiver modules. The transmitter module emits 2 beams, each of them composed of two parallel rays. The interruption of one beam is only validated if both rays it is composed of are cut: a technique which increases significantly the immunity against 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 a millimetric adjustment.

The $\pm 90^\circ$ horizontal orientation of the beams permits the installation of the column in perimeter configurations with 180 degrees orientation of the beams.

The $\pm 10^\circ$ 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 module

Each column can be equipped, depending on the model, with a maximum of two heater modules which compensate the temperature inside the column in case it is particularly low (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.