

# Guardall BG-9

## High Security Seismic Detector

- Detects vibration and heat
- Ideal for strong rooms, safes, and ATM
- Low Voltage indication
- Solenoid and non solenoid protection flaps
- Auto reset and alarm memory
- Sensitivity adjustment
- VdS Class C approval



**Guardall**

**BG-9**

## Specification

<b>Power Supply</b>	9 – 29V dc
<b>Current (quiescent /alarm)</b>	5 – 6mA
<b>Sensitivity adjustment</b>	Dip/Switch
<b>Protection rating</b>	IP 43
<b>Alarm duration</b>	approx 2 second
<b>Alarm output</b>	NC relay
<b>Coverage</b>	typically 3m radius on concrete walls
<b>Dimensions</b>	70 x 110 x 32mm
<b>Temperature</b>	from -10° to +60°C
<b>Relative Humidity at 30°</b>	95% non condensing

## Features

- The BG-9 is an easy to install multi-purpose high security seismic detector.
- A crystal microphone detects the slightest vibrations of the structure where the detector is mounted and converts them into electrical signals. Only vibrations with defined signal parameters will generate an alarm.
- Installation is very easy. The unit is designed for various applications including strong rooms, safes, cash dispensers and automatic ticket vending machines.
- Different keyflaps are available depending on the application. See ordering information below.
- Dedicated PC software allows accurate adjustment of all parameters and may therefore be useful for critical applications.
- Sensitivity can be easily programmed from 30dB to 60dB using the links provided.
- Continuous supervision of connection between the printed circuit board and the piezoelectric sensor.
- Temperature sensors are provided to detect “extreme cold” and “high temperature” attacks.
- The detector is fully tamper protected against removal from wall and removal of cover.
- Short duration, but high intensity signals (explosions) are detected and processed by a special circuit.

## Ordering Information

<b>W74314</b>	Seismic Detector BG-9
<b>W74317</b>	Test noise generator for concrete
<b>W74316</b>	Test noise generator for metal
<b>W73744</b>	Remote test unit
<b>W74373</b>	Safe protection flap (15mm)
<b>W74374</b>	Safe protection flap (50mm)
<b>W74375</b>	Safe protection flap with solenoid (15mm)
<b>W74376</b>	Safe protection flap with solenoid (50mm)
<b>W74086</b>	Conduit fixing/installation kit

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## **XiB Series**

### **BUS SENSOR RANGE**



#### **FEATURES**

- **XiB Bus Detector Range**
- **PQ15 XiB PIR**
- **PQ15 AM XiB PIR**
- **DT15+ XiB Dual Tech**
- **DT15 AM XiB Dual Tech**
- **Redesigned Housing Shared Across Platform Range**
- **Varifocal Lens Design**
- **Adjustment-Free Optics**
- **Software Configurable**
- **Simple Installation**

XiB detectors are connected directly onto the control panel bus and do not require expansion modules. They are simply added to the system using a "Plug and Play" auto add facility which assigns a circuit number automatically to the sensor.

Full control and final adjustment can be carried using either a keypad or the GSR software package remotely or on site. The set up menu is simple to use and does not require the unit case to be opened or DIL switches/links to be set as it is all software configurable. Installation is easy to carry out and provides a genuine reduction in the time to set up making the detector very cost effective to install.

Incorporating a unique varifocal lens design that allows the units to be mounted between 2.1 and 2.5m without adjustment, with a common housing across the range. These units are simple to install and set up and for the majority of installations can be fitted and forgotten as they have effective defaults that require no further setting up.

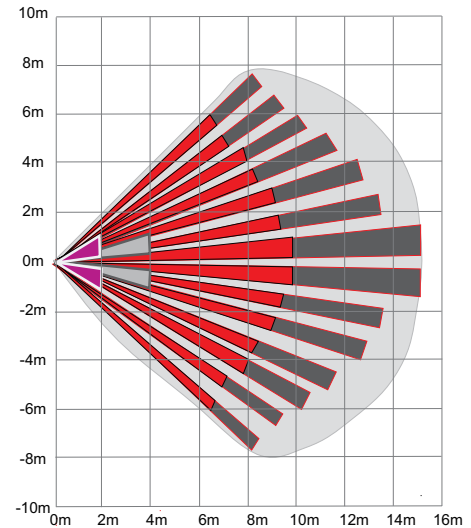


  
**Integration Starts Here!**

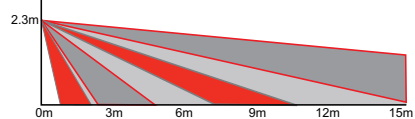
**SPECIFICATIONS**

<b>Power PQ15</b>	<b>Voltage</b>	12Vdc (9Vdc - 16Vdc)
	<b>Current</b>	8mA quiescent @ 12Vdc 11mA max @ 12Vdc (LED on)
	<b>Max. ripple</b>	2V peak to peak @ 12Vdc
<b>Power PQ15 AM</b>	<b>Current</b>	10mA quiescent @ 12Vdc 13mA max @ 12Vdc (LED ON)
<b>Power DT15+</b>	<b>Current</b>	11mA quiescent @ 12Vdc 17mA max @ 12Vdc (All LED's ON)
<b>Power DT15 AM</b>	<b>Current</b>	13mA quiescent @ 12Vdc 19mA max @ 12Vdc (All LED's ON)
<b>Microwave power</b>		0.011 uw/cm <sup>2</sup> @ 1m (average)
<b>Frequency</b>		X band
<b>Alarm period</b>		Approximately 3 seconds
<b>Temperature range</b>		-10°C to 55°C (14°F to 130°F)
<b>Microwave range adjustment</b>		50% to 100% of range via easily accessible potentiometer
<b>PIR coverage adjustment</b>		± 5° adjustment horizontally when corner mounted
<b>Walk test LED's</b>		Red ..... Unit Alarm Green ..... Microwave channel (DT variants only) Yellow..... PIR channel (DT variants only)
<b>Anti-masking</b>		Indicated at the detector and control panel
<b>Packed weight</b>		approx. 110g, 115g, or 135g depending on model
<b>Dimensions (H x W x D)</b>		110 x 66 x 42mm

**VOLUMETRIC PLAN VIEW 15M**



**VOLUMETRIC SIDE VIEW 15M**



FEATURE	BENEFIT
<b>Adjustment free optics</b>	Helps minimise the installation and set up time
<b>Sealed optics</b>	Lower risk of unwanted alarms from insects
<b>Anti stealth</b>	Improved detection in harsh environments
<b>Sneak mirror</b>	Effective detection below the sensor
<b>Active IR anti-mask (AM versions only)</b>	Suitable for high security applications
<b>Sensitivity selection</b>	Higher security and reduced false alarms risk
<b>Profiled temperature compensation</b>	Stable detection through a range of operating temperatures
<b>Microwave range control (DT variants only)</b>	Precise adjustment of microwave detection area
<b>Simplified installation</b>	Reduced installation time and simplified wiring (4 core cable)
<b>Digital fluorescent light rejection</b>	No unwanted alarms from fluorescent lights
<b>Low voltage detection</b>	Indication of problem before you get false alarms
<b>Full detector control</b>	Finite control of the detector parameters through the keypad or GSR software
<b>Microwave/PIR supervision (DT variants only)</b>	Continuous operation in the event of microwave/PIR failure
<b>Microwave day disable (DT variants only)</b>	No microwave emissions during unset/day
<b>Automatic self test (Not PQ15)</b>	Identification of problems by constantly monitoring performance
<b>Improved diagnostics</b>	Accurate voltage and condition indications for the detector (up to 9 conditions shown).
<b>EN50131...Grade 3/2 Class II compliant</b>	Can be used in all installations to this standard (PQ15 Grade 2)
<b>Simplified programming</b>	Reduced configuration and setup time
<b>Three LED's (DT variants only)</b>	Easier to check status of each technology as well as unit alarm
<b>Auto add facility</b>	"Plug and play" configuration resulting in fewer setup errors

**ORDER INFORMATION**

<b>W76557</b>	PQ15 XiB15m	<b>W76576</b>	DT15 AM XiB15m
<b>W76560</b>	PQ15 AM XiB15m	<b>W72321</b>	LPB2 Low Profile Wall Bracket
<b>W76569</b>	DT15+ XiB15m	<b>W72977</b>	CMB1 Ceiling Mount Bracket

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**FEATURES**

- **MIFARE® technology allows one card to be used for up to 16 different applications**
- **Standard Wiegand output interfaces to most access control systems**
- **Audio visual indicators providing feedback when a card is read and accepted**
- **Fully compatible with ISO 14443A, the industry standard for contactless smart cards**
- **Field programmable using reader configuration cards**
- **Fully weatherized to withstand outdoor conditions**
- **Easy installation**

Guardall's smart card readers use MIFARE® technology to read and/or write to contactless smart cards. Smart cards have multiple sectors allowing each sector to be used for a different application such as access control, vending machine debit card, library cards, university cards, prepaid parking, etc.

Guardall provides three different types of readers:

- **Switchplate Reader**
- **Mullion Reader**
- **Reader and Keypad Arming Station**

Guardall also supplies MIFARE® Cards. These cards allow for multiple applications on one card. Cards can be ordered unprogrammed or programmed.

MIFARE® readers provide a Wiegand output and can be used with Guardall Access Control Systems.

We are compatible with Ultralight Type A Format which is used in public transportation applications.



**Switchplate Reader**



**Mullion Reader**



**Reader and Keypad Arming Station**

**Integration Starts Here!**



## SPECIFICATIONS

<b>Maximum Read Range</b>	- 25mm to 75mm (1 to 3in)
<b>Cable Distance</b>	- Wiegand 150m (500ft)
<b>Output</b>	- Wiegand - Other output formats available and subject to additional costs
<b>Transmit Frequency</b>	- 13.56Mhz
<b>Data Transmission</b>	- Contactless
<b>Power Supply</b>	- 10-15VDC
<b>Current Requirements</b>	- 20mA - 100mA
<b>Material</b>	- Polycarbonate, black
<b>Mounting</b>	- Surface
<b>Diagnostics</b>	- Internal power up self-test
<b>Environmental</b>	- Temperature Range... -20°C to 55°C (-4°F to 131°F) - Humidity Range... 5% to 95%

MIFARE® is a registered trademark of Philips Electronics N.V

## PART NUMBERS

<b>120-0042</b>	- Switchplate Reader - 113g (4oz) - 109 x 38 x 18mm (4.30 x 1.5 x .72in)
<b>120-0044</b>	- Mullion Reader - 113g (4oz) - 137 x 75 x 23mm (4.7 x 2.9 x 1.1in)
<b>120-0045</b>	- Reader and Keypad Arming Station - 340g (12oz) - 119 x 74 x 28mm (4.7 x 2.9 x 1.1in)

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## FEATURES

- 8 zones expandable to 48/80
- EN Grade 3, Class II
- 1.5A PSU (750mA auxiliary)
- 1000 event log
- 8/16 set groups
- On-board digi-modem
- 49/99 security user codes
- 1000 access users
- Access control for 32 doors
- Wireless capability

The PX48i & PX80i Control Panels are ideally suited for larger residential and commercial installations that are required to meet EN50131-1 Grade 3, environmental class II. The panel is housed in a large metal case, which has ample room for up to 2 x 18Ah back-up batteries and an 8 input expander or communicator if required.

Featuring 8 diagnostic circuit inputs, 8 TX outputs and a built-in digi-modem, the PX is equipped with all you need for a communicated system with advanced features and functions. Optional additions to the system include Access control capability with full anti-pass back, Inovonics™ radio integration for harsh environments and integration of up to 128 cameras via 8 video servers.



As with all Guardall panels, the PX uses a common set of bus-based peripherals including PSTN, GSM and dual comms (PSTN/GSM) and can operate over an ethernet, wide or local area network. PX is fully supported by Guardstation (GSR) that adds the capability to remotely interrogate, program, manage and service the system which provides superior customer service and improved operational capability.

**Integration Starts Here!**

SPECIFICATIONS	PX48i	PX80i
EN 50131-1 & PD6662	Grade 3, Class II	Grade 3, Class II
Max. circuits	8 on-board expands to 48	8 on-board expands to 80
PSU	0.75A (aux) 0.75A (battery)	0.75A (aux) 0.75A (battery)
XiB busses	1 fuse protected	1 fuse protected
Max. security users	49 + engineer	99 + engineer
Max. access users	1000	1000
Areas	8	16
Set groups	8	16
Sub systems	4	8
Max keypads	8	16
Output modules	8	16
TX outputs	8	8
Ethernet modules	1	1
Access modules	32	32
Talkback modules	8	16
Wireless modules	External, 4 max	External, 8 max
Max. transmitters	24	40
Max. keyfobs	12	16
Video servers/cameras	8 server, 128 cameras	8 server, 128 cameras
XiB (bus) detectors	24	40
Custom responses	5	10
Telephone numbers	8	8
Alarm formats	Contact ID, SIA Level 3, Ademco Fast, Superfast, Speech S.M.S. and Guardall	Contact ID, SIA Level 3, Ademco Fast, Superfast, Speech S.M.S. and Guardall
Digi-modem	On-board	On-board
Diagnostics	All circuits, PSU, Battery & Peripherals	All circuits, PSU, Battery & Peripherals
Security log size	1000	1000
Access log size	1000	1000
Supported GSRs	4	4
Remote control/service	Through GSR software	Through GSR software
Serial connection	On-board	On-board
Schedules	32	32
Holidays	14	14
Battery capacity	2 x 18Ahr in the case	2 x 18Ahr in the case
Case material	1.2mm mild steel	1.2mm mild steel
Case dimensions (mm)	395 x 420 x 93	395 x 420 x 93
Unit packed weight	6.6kgs	6.6kgs

## ORDER INFORMATION

<b>W76511</b>	PX48i Panel (metal case)
<b>W76484</b>	PX80i Panel (metal case)

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## FEATURES

- **Expandable to 512/256 circuits**
- **EN Grade 3, Class II**
- **2.2A PSU (1.42A auxiliary)**
- **1000/2000 event log**
- **32/16 set groups**
- **4 independent busses**
- **199 security user codes**
- **1000 access users**
- **Access control for 32 doors**
- **Wireless capability**

The PX500 & PX250HS Control Panels are ideally suited for commercial, large industrial and high security installations that are required to meet EN50131-1 Grade 3, environmental class II. The panel is housed in a large metal case, which has ample room for up to 2 x 18Ah back up batteries and an 8 input expander or communicator if required.

The panel capacity 512/256 circuits is achieved using external 8 or 4 input diagnostic expanders, it can be sub divided into 16/8 completely independent sub systems so is ideally suited to shopping malls and large industrial premises. Optional additions to the system include full access control capability with full anti-pass back for up to 32 doors. Inovonics™ wireless can be integrated with up to 128 transmitters supported. Video and audio can also be integrated with support for up to 128 cameras via 8 video servers and 32 audio modules and 128 microphones.



As with all Guardall panels, the PX uses a common set of bus based peripherals including PSTN, GSM and dual comms (PSTN/GSM) and can operate over an ethernet, wide or local area network. PX is fully supported by Guardstation (GSR) that adds the capability to remotely interrogate, program, manage and service the system which provides superior customer service and improved operational capability.



**Integration Starts Here!**

SPECIFICATIONS	PX500	PX250HS
EN 50131-1 & PD6662	Grade 3, Class II	Grade 3, Class II
Max. circuits	0 on-board expands to 512	0 on-board expands to 256
PSU	1.42A (aux) 0.78A (battery)	1.42A (aux) 0.78A (battery)
XiB busses	4 fuse protected	4 fuse protected
Max. security users	199 + engineer	199 + engineer
Max. access users	1000	1000
Areas	32	16
Set groups	32	16
Sub systems	16	8
Max keypads	32	16
Output modules	32	32
TX outputs	8	8
Ethernet modules	1	1
Access modules	32	32
Talkback modules	32	16
Wireless modules	External, 16 max	External, 8 max
Max. transmitters	128	128
Max. keyfobs	20	20
Video servers/cameras	8 server, 128 cameras	8 server, 128 cameras
XiB (bus) detectors	64	64
Custom responses	20	20
Telephone numbers	8	8
Alarm formats	Contact ID, SIA Level 3, Ademco Fast, Superfast, Speech S.M.S. and Guardall	Contact ID, SIA Level 3, Ademco Fast, Superfast, Speech S.M.S. and Guardall
Digi-modem	External PSTN, GSM, Dual comm	External PSTN, GSM, Dual comm
Diagnostics	All circuits, PSU, Battery & Peripherals	All circuits, PSU, Battery & Peripherals
Security log size	1000	2000
Access log size	1000	1000
Supported GSRs	4	4
Remote control/service	Through GSR software	Through GSR software
Serial connection	External, 2 max	External, 2 max
Schedules	32	32
Holidays	14	20
Battery capacity	2 x 18Ahr in the case	2 x 18Ahr in the case
Case material	1.2mm mild steel	1.2mm mild steel
Case dimensions (mm)	395 x 420 x 93	395 x 420 x 93
Unit packed weight	7.2kgs	7.2kgs

## ORDER INFORMATION

<b>W76195</b>	PX500 Panel (metal case)
<b>W76203</b>	PX250HS Panel (metal case)

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## FEATURES

- 8 zones expandable to 16
- EN Grade 2, Class II
- 1 A PSU (500mA auxiliary)
- 250 event log
- 15 User codes
- On-board digi-modem
- 4 part sets
- Silent and Quick Set Options

The RX16i Control Panel is ideally suited for domestic and light commercial installations that are required to meet EN50131-1 Grade 2, environmental class II. The panel is housed in an ABS case, which has ample room for a 7Ah battery for back up and a 4 circuit expander if required.

Featuring 8 diagnostic circuit inputs, 6 TX outputs and a built-in digi-modem, the RX is equipped with all you need for a communicated system with advanced features and functions. The integration of Visonic™ wireless allows a hybrid system to be installed and gives greater flexibility during the system design and installation process. The addition of a video server and Guardstation (GSR) software allows for verification of events.

As with all Guardall panels, the RX16i uses a common set of bus-based peripherals including the new Mini Keypad designed to reduce the risk of false activations using proximity tokens instead of PIN codes.



**Integration Starts Here!**

SPECIFICATIONS	RX16i
<b>EN 50131-1 &amp; PD6662</b>	Grade 2, Class II
<b>Max. circuits</b>	8 on-board expands to 16
<b>PSU</b>	0.5A (aux) 0.5A (battery)
<b>XiB busses</b>	1 fuse protected
<b>Max. security users</b>	15 + engineer
<b>Max. access users</b>	N/A
<b>Areas</b>	4
<b>Set groups</b>	N/A
<b>Sub systems</b>	N/A
<b>Max keypads</b>	4
<b>Output modules</b>	1
<b>TX outputs</b>	6
<b>Ethernet modules</b>	1
<b>Access modules</b>	N/A
<b>Talkback modules</b>	2
<b>Wireless modules</b>	Internal option or external, 2 max
<b>Max. transmitters</b>	16
<b>Max. keyfobs</b>	4
<b>Video servers/cameras</b>	1 server, 16 cameras
<b>XiB (bus) detectors</b>	8
<b>Custom responses</b>	2
<b>Telephone numbers</b>	8
<b>Alarm formats</b>	Contact ID, SIA Level 3, Ademco Fast, Superfast, Speech S.M.S. and Guardall
<b>Digi-modem</b>	On-board
<b>Diagnostics</b>	All circuits, PSU, Battery & Peripherals
<b>Security log size</b>	250
<b>Access log size</b>	N/A
<b>Supported GSRs</b>	1
<b>Remote control/service</b>	Through GSR software
<b>Serial connection</b>	On-board
<b>Schedules</b>	2
<b>Holidays</b>	N/A
<b>Battery capacity</b>	1 x 7Ahr in the case
<b>Case material</b>	ABS 5VA
<b>Case dimensions (mm)</b>	300 x 220 x 85
<b>Unit packed weight</b>	2kgs (ABS case)

## ORDER INFORMATION

<b>W76469</b>	RX16i Panel (ABS case)
<b>W76518</b>	RX16i Panel + Mini LCD + Fob Pack
<b>W76519</b>	RX16i Panel + Mini LCD + Fob Pack + Visonic RX
<b>W76520</b>	RX16i Panel + LCD Prox
<b>W76521</b>	RX16i Panel + LCD Prox + Visonic RX

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# **SBT/SBQ** Active Infrared Beams



**Twin and Quad active infrared beams (SBT and SBQ respectively) for indoor and outdoor perimeter protection. High power source for better detection range and minimum signal loss.**



**Guardall** • **SBT/SBQ**

# SBT/SBQ

## Active Infrared Beams

SUPPLIER/INSTALLER

### ORDERING INFORMATION

			Minimum-Maximum Range	
			outdoor	indoor
SBQ 200	200 metres QUAD	<b>W 73677</b>	100-200m	
SBQ 150	150 metres QUAD	<b>W 72359</b>	75-150m	
SBQ 100	100 metres QUAD	<b>W 72360</b>	50-100m	
SBT 150	150 metres TWIN	<b>W 73676</b>	100-150m	150-250m
SBT 100	100 metres TWIN	<b>W 73129</b>	75-100m	100-175m
SBT 50	50 metres TWIN	<b>W 72361</b>	25-50m	75-150m
SBT 25	25 metres TWIN	<b>W 72362</b>	0-25m	0-75m
SQA 1	SBQ pole mounting kit	<b>W 72363</b>		
SQA 2	"Back to back" kit	<b>W 72364</b>		
SOH 24	Heater/Thermostat for SBQ	<b>W 72365</b>		
STA 1	SBT pole mounting kit	<b>W 72366</b>		

### TECHNICAL SPECIFICATION

	SBT	SBQ
<b>Range</b>	25m, 50m, 100m, 150m	100m, 150m, 200m
<b>Max transmission distance</b>	350m (SBT 25), 700m (SBT50), 1100m (SBT100), 1680m (SBT150),	2000m (SBQ100), 3000m (SBQ150), 3200m (SBQ200).
<b>Detection System</b>	2 beams simultaneously	4 beams simultaneously
<b>Response Time</b>	50 – 700ms (variable)	35 – 700ms (variable)
<b>Alarm output</b>	NC-NO (30V 500mA)	NC-NO (30V 500mA)
<b>Tamper output</b>	NC	NC
<b>Power Supply</b>	10.5 – 28V dc	10.5 – 28V dc
<b>Current</b>	25mA (SBT25) 47mA (SBT50) 60mA (SBT100) 71mA (SBT150)	82mA (SBQ100) 93mA (SBQ150) 100mA (SBQ200)
<b>Temperature</b>	-25° to +55°C	-25° to +55°C
<b>Optical axis adjustment</b>		
Horizontal	180° (+/- 90°)	180° (+/- 90°)
Vertical	20° (+/- 10°)	24° (+/-12°)
<b>Optical collimator</b>	Removable	Incorporated
<b>Frost protection</b>	Slit type	Slit type (heater option)
<b>Test Signal output</b>	Yes	Yes
<b>Fog disable circuit</b>	No	Yes
<b>Housing</b>	Polycarbonate/ABS	Polycarbonate/Aluminium
<b>Weight</b>	300 grams	970 grams
<b>IMQ approval</b>	Level II	Level II

## Guardall SBT/SBQ

### SUPERIOR QUALITY AND PERFORMANCE

- ▶ High quality bifocal lenses and high power transmitter diodes for exceptional performance.
- ▶ False alarm immunity increased by Twin (SBT) and Quad (SBQ) operation. An alarm signal is activated by the simultaneous obscuration of two or four beams.
- ▶ Automatic Gain Control to compensate for environmental conditions.
- ▶ Digital filter (SBQ) analyses and filters environmental noise, thus improving false alarm immunity.
- ▶ Signal stability and quality assured by the use of quartz oscillator.
- ▶ Adjustable detection speed to suit installations with different risk levels.
- ▶ Simultaneous adjustment of beams (both horizontal and vertical).

### ADVANTAGES FOR CUSTOMERS AND INSTALLERS

- ▶ SBQ is suitable for poor weather conditions (built in fog disable circuit and optional heaters).
- ▶ Optical alignment for easier and faster installation.
- ▶ Pleasant aesthetic design suitable for all applications, from residential to industrial.

## COLUMNS

### for SBT/SBQ Active Infrared Beams

- Pleasant aesthetic design
- Easy to install
- 180° beam adjustment
- Four different height versions
- Tamper module included
- ▶ The columns for active infrared beams SBT/SBQ are designed and built to withstand the worst weather conditions and are therefore suitable for outdoor perimeter installations.
- ▶ The use of aluminium extrusion gives a very high mechanical resistance, whereas the "window" part (either in perspex or in polycarbonate) is robust and insensitive to sunlight.
- ▶ The columns represent an ideal and invisible barrier, suitable for outdoor perimeter protection, without compromising the aesthetics of the site to be protected.
- ▶ The special "window" allows the installation of several IR beams, mounted at different heights and angles to give cost effective protection.
- ▶ Heater and kits for either wall or ground installation are optional accessories. The heater module is set to switch on at +7/8°C and switch off at +14°C (at 24V dc/ac – 20W).

### COLUMNS ORDERING INFORMATION

Column 1.5m high with tamper  
Column 2.0m high with tamper  
Column 2.5m high with tamper  
Column 3.0m high with tamper

**W74072**  
**W74073**  
**W74074**  
**W74075**

#### Optional Accessories:

Mounting Base for SBT/SBQ **W74076**  
Wall Mounting kit **W74077**  
Ground Mounting kit **W74078**  
Heater/Thermostat **W74080**  
Power Supply  
(500mA at 12V dc; 2A at 24V ac): **W74079\***

\* requires W74076 base

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