



General catalogue

Edition 2 - 2022



Hi-Tech Security Systems

High technology burglar alarm systems

INDEX

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



	Evolution - Wireless burglar alarm system	p. 30
--	--	-------



	High-technology of hard-wired and wireless systems	p. 62
	System complements	p. 88
	Consoles and control units	p. 94
	Expansion modules - Inputs - Outputs - Serial bus	p. 104
	RSC® products	p. 110
	ASYN@WL wireless products	p. 136
	Detectors - For indoor or outdoor use	p. 146
	Sirens - For indoor or outdoor use	p. 158
	Power supplies	p. 162
	Accessories - Batteries - Cables - Contacts	p. 166
	Merchandising - Demo-cases - Display equipment - Apparel	p. 176
	Iconography	p. 180
	General terms of sale and delivery	p. 183

Tecnoalarm - International leader in security	p. 6	High-technology of hard-wired and wireless systems	p. 62
Tecnoalarm telematic services	p. 10	TP10-42 control panel	p. 64
Tecnoalarm cutting-edge innovations	p. 11	System configuration	p. 66
RSC® technology - Remote Sensitivity Control	p. 12	Internal expansions and interfaces	p. 70
Tecnoalarm apps	p. 14	TP8-88 control panel	p. 72
Software	p. 16	System configuration	p. 74
Programming	p. 18	Internal expansions and interfaces	p. 78
Remote management with TCP/IP	p. 18	TP20-440 control panel	p. 80
Monitoring	p. 18	System configuration	p. 82
License options	p. 19	Internal expansions and interfaces	p. 86
Services	p. 19	System complements	p. 88
Supervisor by Tecnoalarm	p. 20	GSM 4G communicators	p. 90
Server licenses	p. 22	Touch screen video consoles	p. 92
Additional licenses	p. 22	Consoles and control units	p. 94
License options	p. 23	Touch screen consoles	p. 95
Software configuration	p. 26	Consoles	p. 98
Tecnoalarm systems: advanced solutions for any protection requirement	p. 28	RFID reader interfaces	p. 98
Technical evaluation index	p. 29	RFID readers	p. 99
Evolution - Wireless burglar alarm system	p. 30	Access Point Readers (APR)	p. 100
EV 4-24 4G control panel	p. 32	RFID cards	p. 101
System configuration	p. 34	Transponders	p. 101
Internal expansions	p. 38	Outdoor keypads	p. 102
Wireless extenders	p. 40	Stand-alone relay control systems	p. 103
Consoles and control units	p. 41	Expansion modules - Inputs - Outputs - Serial bus	p. 104
Detectors for indoor use	p. 47	Input expansions	p. 105
Detectors for outdoor use	p. 54	Output expansions	p. 106
Optical smoke detectors	p. 56	Serial extension modules	p. 107
Temperature and humidity detectors	p. 56		
Output expansions	p. 57		
Indoor sirens	p. 58		
Outdoor sirens	p. 59		
Serial input expansions	p. 60		
Serial output expansions	p. 61		

RSC® products	p. 110	Power supplies	p. 162
Input expansions	p. 111	External power supplies	p. 163
Power supplies	p. 113	Build-in power supplies	p. 165
Dual technology for indoor use	p. 114		
Passive infrared for indoor use	p. 116	Accessories - Batteries - Cables - Contacts	p. 166
Dual technology for indoor use	p. 118	Batteries	p. 167
Dual technology for outdoor use	p. 120	YUASA	p. 167
Passive infrared for outdoor use	p. 122	FIAMM	p. 167
Active infrared for outdoor use	p. 124	CPR compliant cables	p. 168
Microwave for outdoor use	p. 130	PVC cables	p. 168
Bus sirens for indoor use	p. 133	LSZH cables	p. 168
Bus sirens for outdoor use	p. 134	Reed contacts EN 50131-2-6 certification security grade 3	p. 170
		Reed contacts EN 50131-2-6 certification security grade 2	p. 170
ASYNC@WL wireless products	p. 136	Reed contacts EN 50131-2-6 certification security grade 1	p. 172
Receivers	p. 137	Mechanical rod and rope contacts	p. 172
Control units	p. 137	Vibration detectors	p. 173
Passive infrared for indoor use	p. 138	Flood detectors	p. 174
Passive infrared for outdoor use	p. 140	Panic buttons	p. 174
Magnetic contacts	p. 143	Additional relay boards	p. 175
Active infrared for outdoor use	p. 144	Optical repeaters	p. 175
Optical smoke detectors	p. 145	Junction boxes	p. 175
Detectors - For indoor or outdoor use	p. 146	Merchandising	p. 176
Passive infrared for indoor use	p. 147	Demo-cases - Display equipment - Apparel	
Dual technology for indoor use	p. 149	Demo-cases	p. 177
Passive infrared for outdoor use	p. 151	Display equipment	p. 178
Dual technology for outdoor use	p. 152	Apparel	p. 179
Microwave for outdoor use	p. 154	Deterrent signs and labels	p. 179
Active infrared for outdoor use	p. 156		
Optical smoke detectors	p. 157	Iconography	p. 180
Sirens - For indoor or outdoor use	p. 158	General terms of sale and delivery	p. 183
Sirens for indoor use	p. 159		
Sirens for outdoor use	p. 161		

TECNOALARM INTERNATIONAL LEADER IN SECURITY



Since 1977: more than 40 years of research and innovation

Tecnoalarm, established in 1977 and motivated by a great passion for security, has immediately placed great emphasis on advanced technological research and on the development of simple but efficient solutions that meet the requirements of the market.

High-quality products and a high level of innovation very soon allowed Tecnoalarm to dominate the market and boost its growth. Today, the company is leader in Italy and strongly present in the world.

After several years of research, in 2014, the company has started the commercialization of the product line of automatic fire alarm systems, Tecnofire.

In 2017, the company has celebrated **40 years of activity**, an important milestone that ranks it among the most reputable actors 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.

Its commitment to constant evolution 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

pininfarina



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 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.

Protection levels

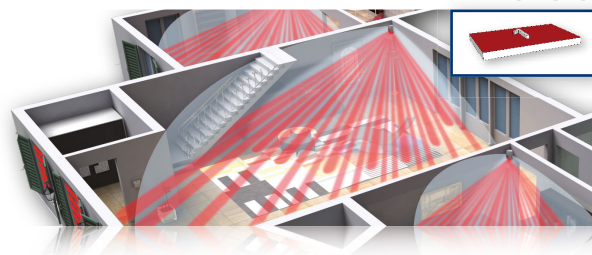
In order to better understand the application of the different types of detection devices, we assume to set up an alarm system to protect a detached house.

For this kind of installation, we define three levels of protection:

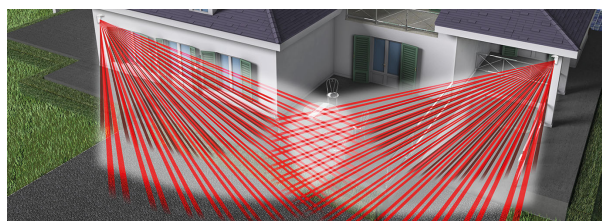
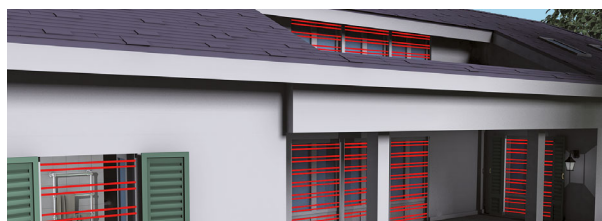
- First level** Protection of the sensible areas in the indoors (bedroom, living room etc.)
- Second level** Protection of the outside of the building (doors and windows)
- Third level** Perimeter protection of the estate (boundary wall or fence)

The protection levels divide the site into three macro areas featuring considerably different characteristics. The extensive range of detectors from Tecnoalarm offers the perfect fit for each of them.

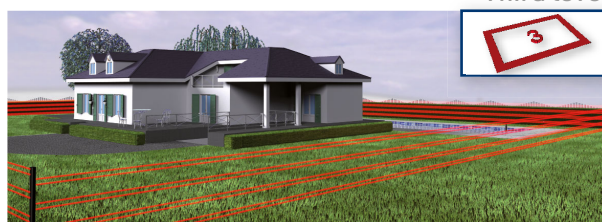
First level



Second level



Third level



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 system's name and IP address are automatically recorded on the DNS servers of Tecnoalarm and transmitted to the internet. 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. 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 Digital Verification and the Remote Sensitivity Control 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 Sensitivity 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.

Protocols



EV@BWL

EV@BWL is the two-way multichannel wireless protocol that Tecnoalarm has developed specifically for the Evolution range. It guarantees a high level of device monitoring and a good management of energy consumption.



ASYNC@WL

The traditional ASYNC@WL protocol allows to manage the systems of the TP range in the unidirectional mode. The implementation of the wireless devices is made through a specific receiver connected to the system via serial bus. The devices that implement this protocol offer an adequate level of protection for medium-high security applications.

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.



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 and all details concerning the notifications.



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 serial 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

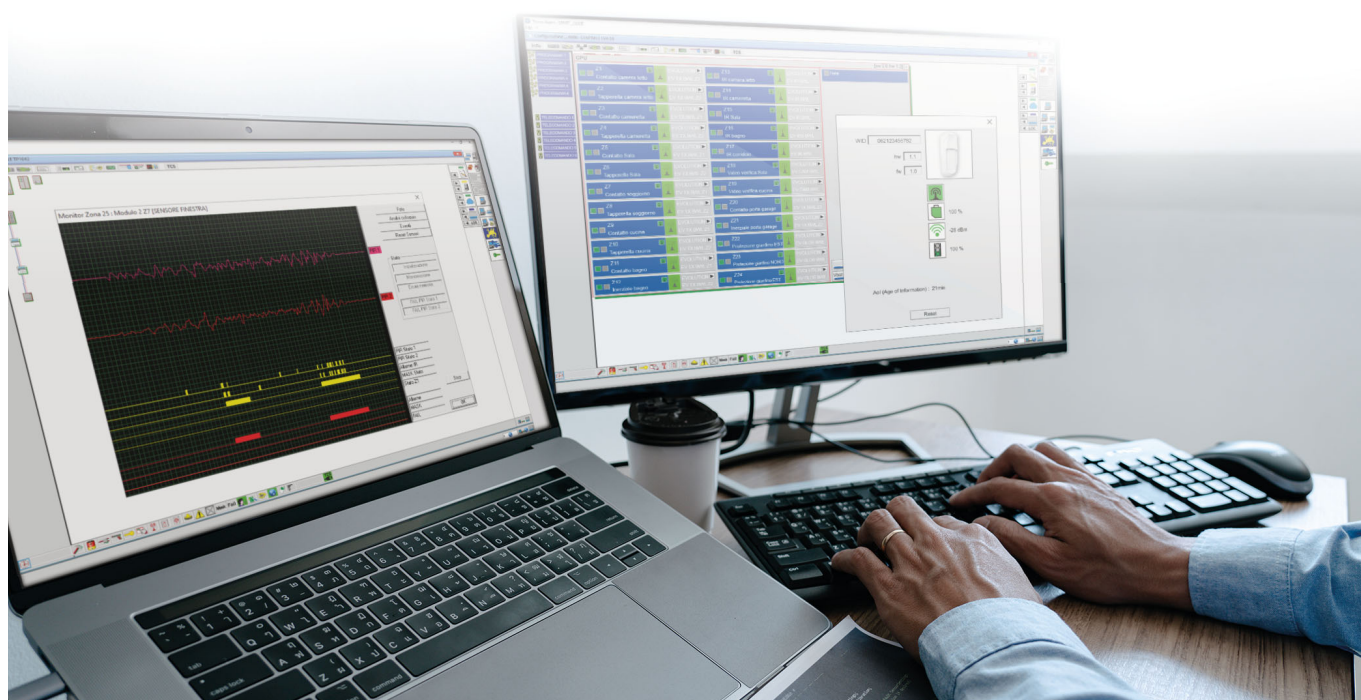
As prescribed by the European standards, on delivery of the installation, the installer must issue a document that specifies the composition of the system and certifies the efficiency and consistency of the installed devices with the project. The system overview is easy to draw with the Hardware coherence 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 is ensured by an encrypted communication protocol and a double security code: passphrase and access code, optionally replaceable by the practical biometric authentication.



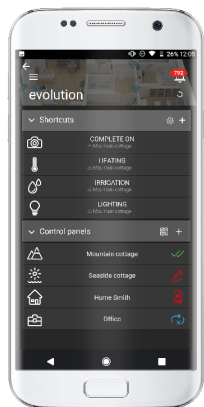
evolution



myTecnoalarm TCS



myTecnoalarm



evolution

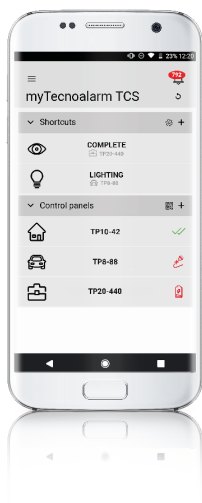


Evolution

The app for the new Evolution range systems.

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





myTecnoalarm TCS



myTecnoalarm TCS

The app for the latest TP range 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 all the network-compatible TP range 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. 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 with TCP/IP**



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</p> <p>Programming software for Windows 32/64 bit - 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 with TCP/IP






	<p>TCP/IP SOFTWARE</p> <p>Remote management software for Windows 32/64 bit - 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>	
	Included option 14	
	<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</p> <p>Monitoring software for Windows 32/64 bit - 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>Item no. F130TECNOMONIT</p>	Included option 2

	<p>TWINMONITOR</p> <p>Monitoring software for Windows 32/64 bit - 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>Item no. F130TWINMONITOR</p>	Included option 2

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 email 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			

Services

LICENSE COPY	Copy of the user license for any Tecnoalarm software
Item no. F130LICSOFTWARE	



Supervisor by Tecnoalarm

supervisor

by Tecnoalarm®

Supervisor by Tecnoalarm is a modern supervision software with a modular structure, 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

Three 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 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.









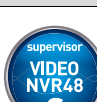
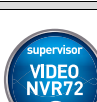

Server licenses

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					

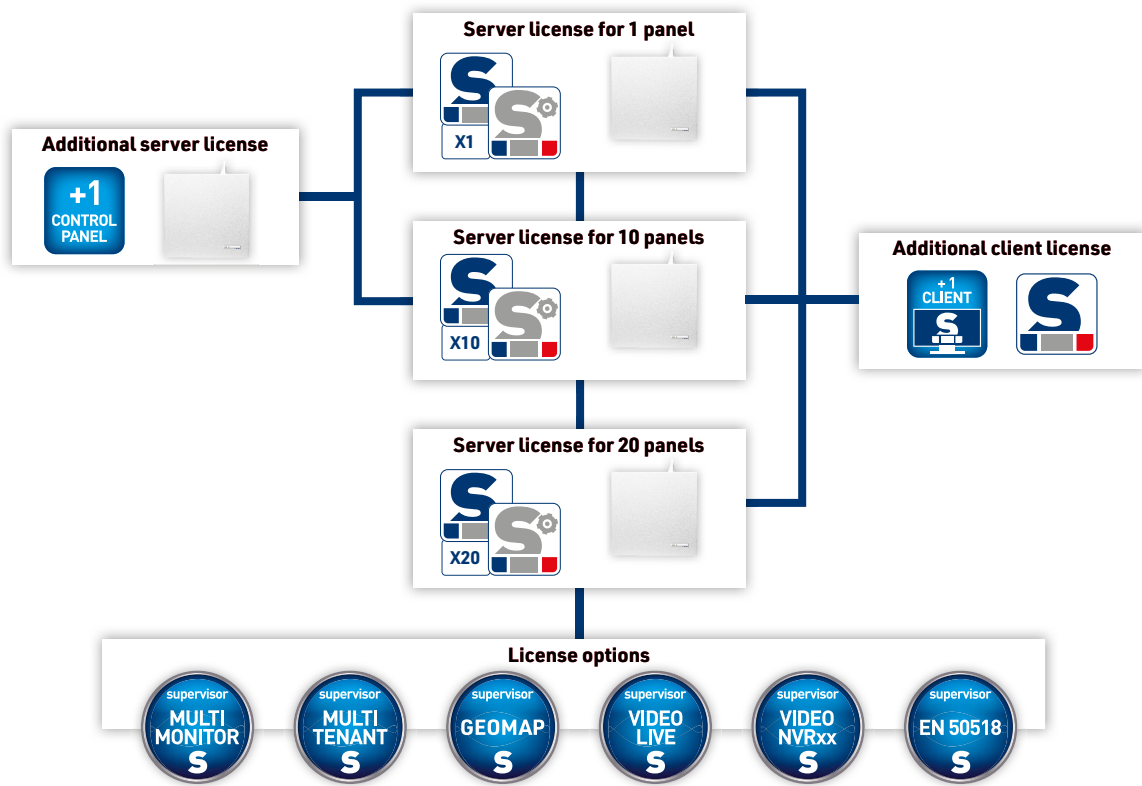
Additional licenses

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

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 subsystems - For each subsystem (tenant) 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 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-VR09	Video recording option for Supervisor server licenses - Permits the live capture of an indefinite number of RTSP streams and the recording of max. 9 Onvif RTSP streams coming from IP cameras on the LAN, as well as the use of plug-ins for reproduction.	
	Item no. F140SVABLVR09	
TASV-ABL-VR16	As TASV-ABL-VR09 but permitting the recording of max. 16 Onvif RTSP streams.	
	Item no. F140SVABLVR16	
TASV-ABL-VR24	As TASV-ABL-VR09 but permitting the recording of max. 24 Onvif RTSP streams.	
	Item no. F140SVABLVR24	
TASV-ABL-VR48	As TASV-ABL-VR09 but permitting the recording of max. 48 Onvif RTSP streams.	
	Item no. F140SVABLVR48	
TASV-ABL-VR72	As TASV-ABL-VR09 but permitting the recording of max. 72 Onvif RTSP streams.	
	Item no. F140SVABLVR72	
TASV-ABL-VR96	As TASV-ABL-VR09 but permitting the recording of max. 96 Onvif RTSP streams.	
	Item no. F140SVABLVR96	

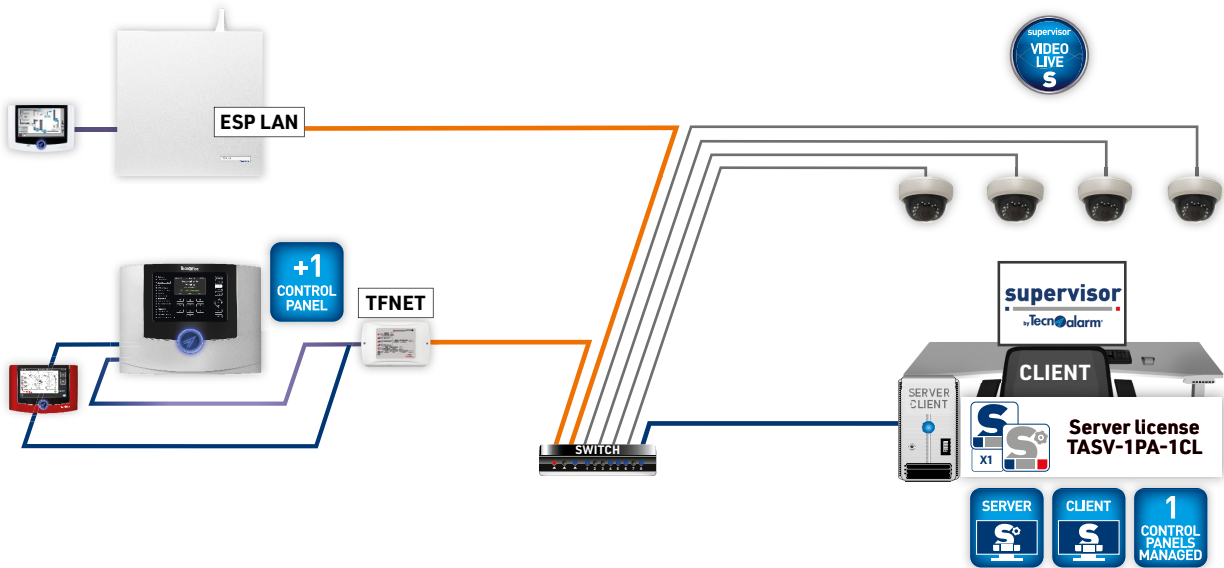
SUPERVISOR LICENSE SCHEME



Supervisor by Tecnoalarm

ON-SITE SUPERVISION

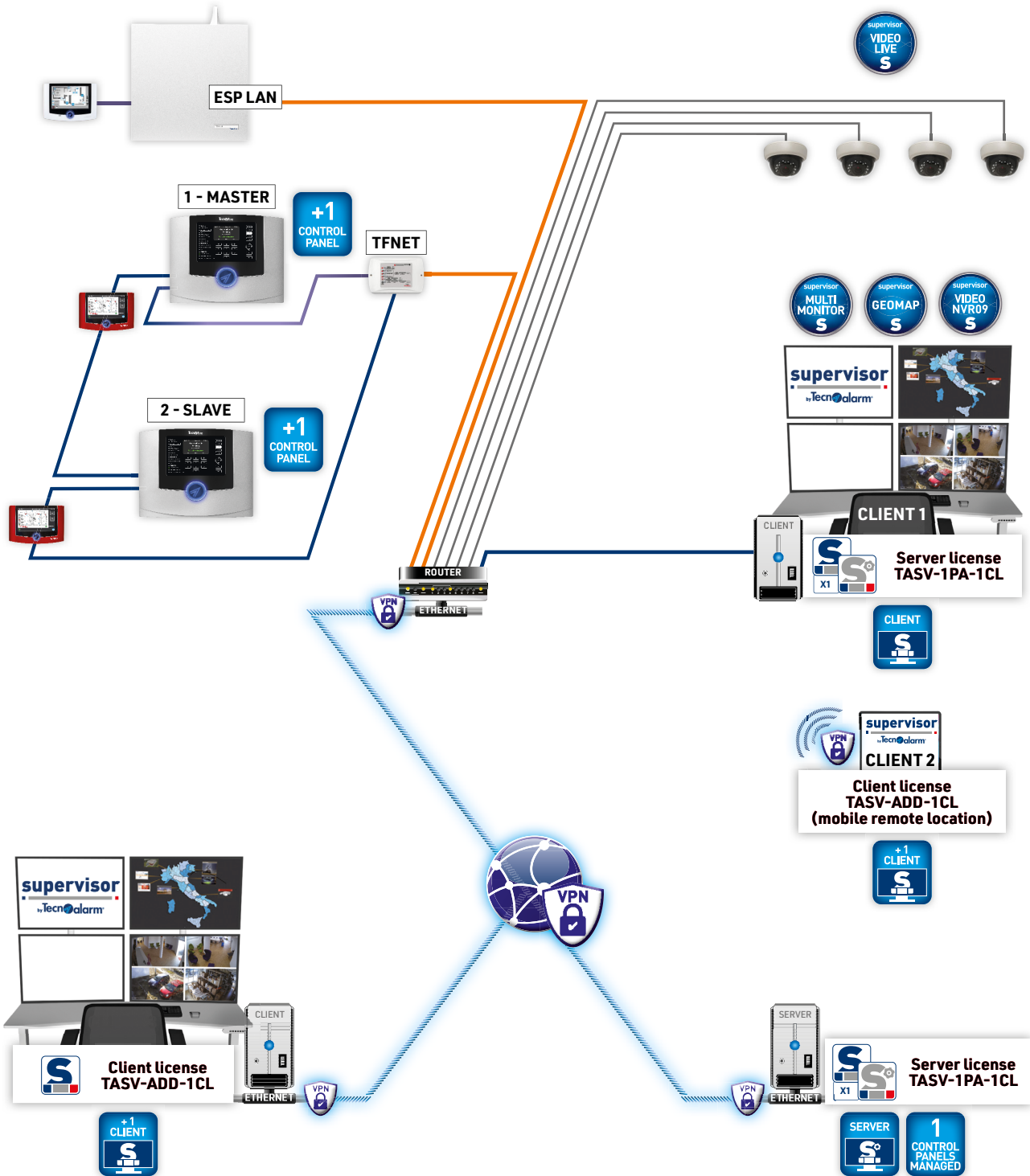
Supervision of the systems from a local client location.
 LAN connection of 1 server/client location to 1 burglar alarm panel, 1 fire alarm panel and 4 live cameras.



Licenses	Basic Supervisor server license (TASV-1PA-1CL)	License options	Live video capture option (TASV-ABL-VL)
	1 additional Server license for 1 Tecnofire system (TFSV-ADD-1PF)		




DISTRIBUTED SUPERVISION

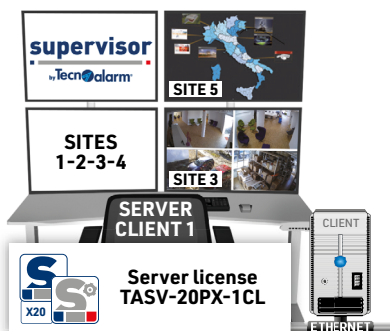
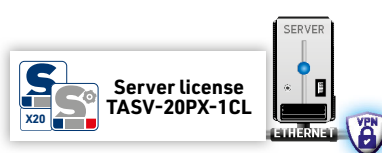
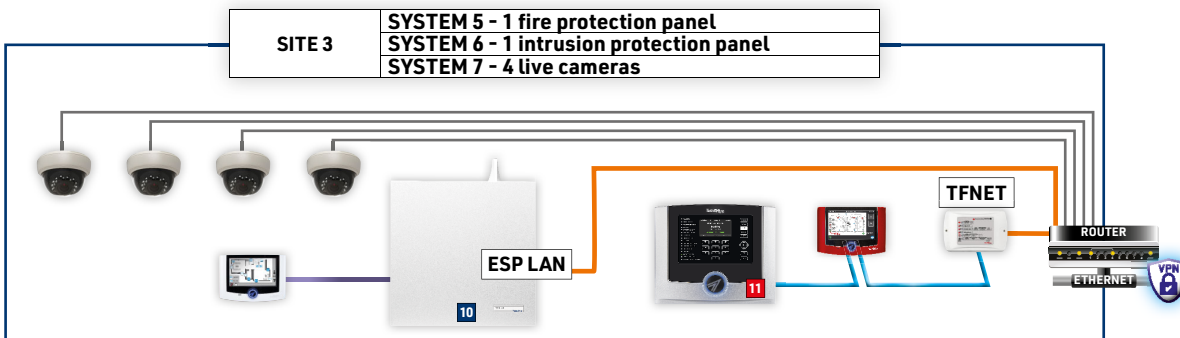
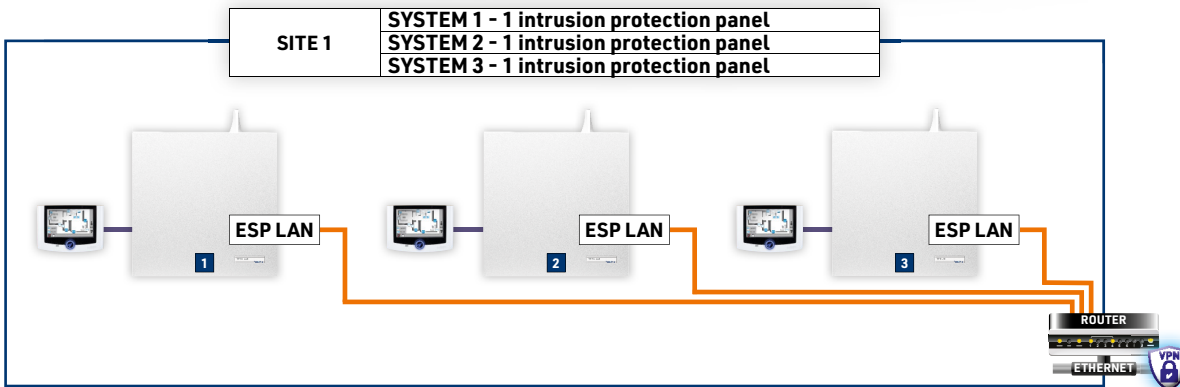
Supervision of the systems from 3 client locations: 1 local, 1 remote and 1 mobile remote location LAN and VPN connection of the server/client locations to 1 burglar alarm panel, 2 fire alarm panels and 4 live cameras.



Licenses	License options
Basic Supervisor server license (TASV-1PA-1CL)	Live video capture option (TASV-ABL-VL)
2 additional Client license (TASV-ADD-1CL)	Multi-monitor option (TASV-ABL-MM)
2 additional Server licenses for 2 Tecnofire systems (TFSV-ADD-1PF)	Geo Map option (TASV-ABL-GM)
	Video recording option (TASV-ABL-VR09)

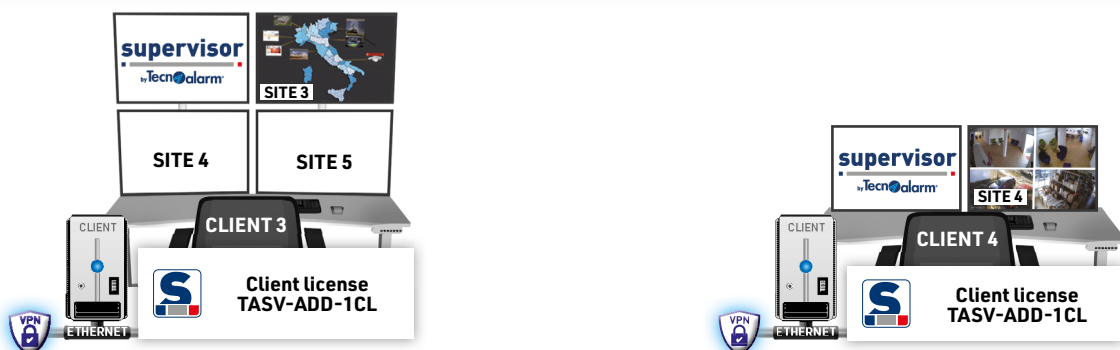
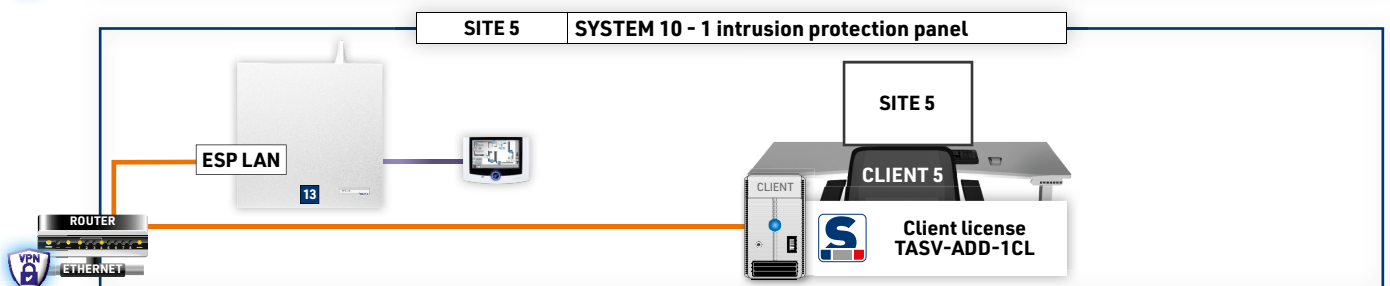
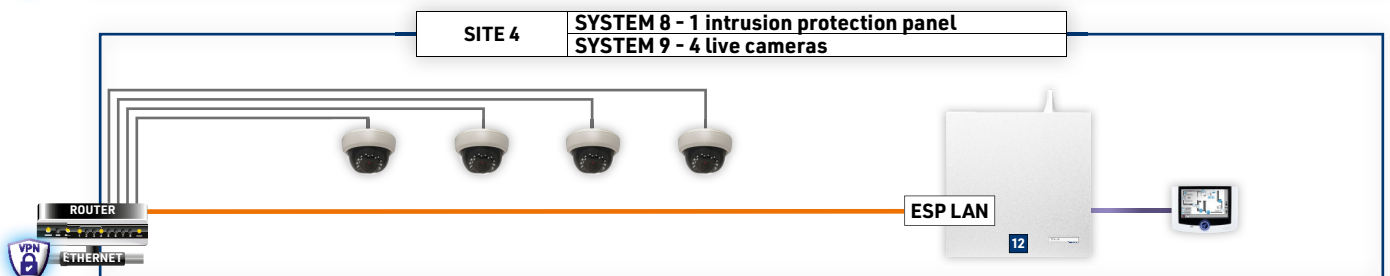
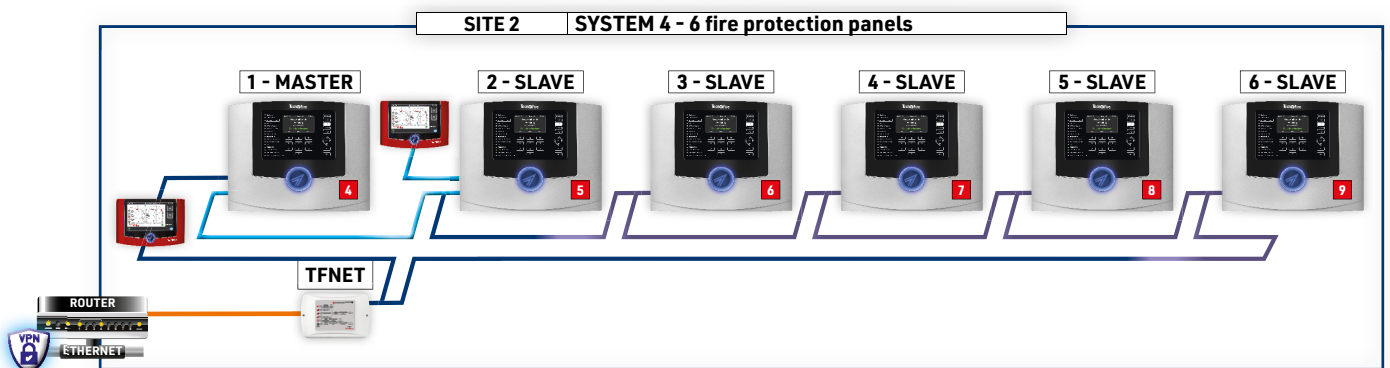
The scheme illustrates the example of a Supervisor software configured to control 5 geographically spread sites that are protected by one or more systems. The tables show the software configuration in terms of licenses and license options.

	Multi-panel Supervisor server license (TASV-20PX-1CL) Max. 20 control panels	1	2	3	4	5	6	7	8	9	10
		11	12	13	14	15	16	17	18	19	20
	Multi-monitor option (TASV-ABL-MM) Max. 4 monitors for each client	CLIENT 1		CLIENT 2		CLIENT 3		CLIENT 4		CLIENT 5	
		1	2	1	2	1	2	1	2	1	2
		3	4	3	4	3	4	3	4	3	4
	Geo Map option (TASV-ABL-GM) Creation of HTML pages with GPS positioning	CLIENT 1		CLIENT 2		CLIENT 3		CLIENT 4		CLIENT 5	
		Enabled for each client									



Software configuration

	Live video capture option (TASV-ABL-VL) Viewing of RTSP or Onvif RTSP streams	Client 1	Client 2	Client 3	Client 4	Client 5		
		Enabled for each client						
	Multi-tenant option (TASV-ABL-MT) Max. 5 subsystems with different operating restrictions for both clients and operators	CLIENT						
		SITE	SYSTEM	1	2	3	4	5
		1	1 - Intrusion	✓	✓			
			2 - Intrusion	✓	✓			
			3 - Intrusion	✓	✓			
		2	4 - Fire	✓	✓			
			5 - Fire	✓	✓	✓		
		3	6 - Intrusion	✓	✓	✓		
			7 - CCTV	✓	✓	✓		
		4	8 - Intrusion	✓		✓	✓	
			9 - CCTV	✓		✓	✓	
5	10 - Intrusion	✓		✓		✓		



TECNOALARM SYSTEMS: ADVANCED SOLUTIONS FOR ANY PROTECTION REQUIREMENT

evolution

EV
SYSTEMS



evolution

evolution.tecnoalarm.com

Tecnoalarm®

TP
SYSTEMS



myTecnoalarm TCS



myTecnoalarm

www.tecnoalarm.com



DESIGN BY

pininfarina

Amazon, Alexa
and all related logos
are trademarks
of Amazon.com, Inc.
or its affiliates

Control panels certified by Amazon:
EV 4-24 46 - TP10-42 - TP8-88 - TP20-440

works with



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 GSM	IP	4G GSM-EXT	TCS	DDNS TECNOALARM	evolution	myTecnoalarm TCS	myTecnoalarm
EV 4-24 4G EV 4-24 4G EN	■	-	-	■	-	SP3...5 DP1...DP4	SP3...5	-	■	■	■	-	-
	B				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: 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.



Wireless burglar alarm system


MADE IN ITALY



EV
SYSTEMS

evolution

Tecn^oalarm[®]



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

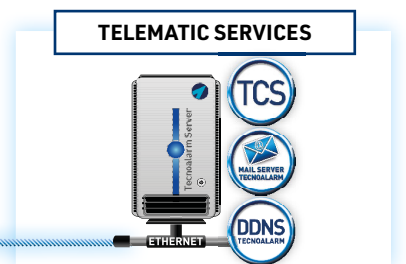
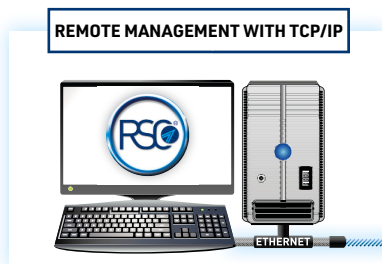
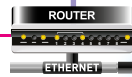
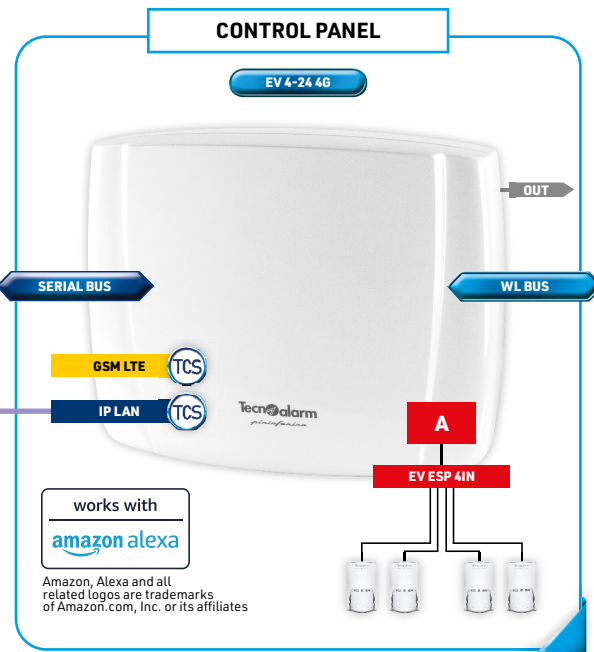
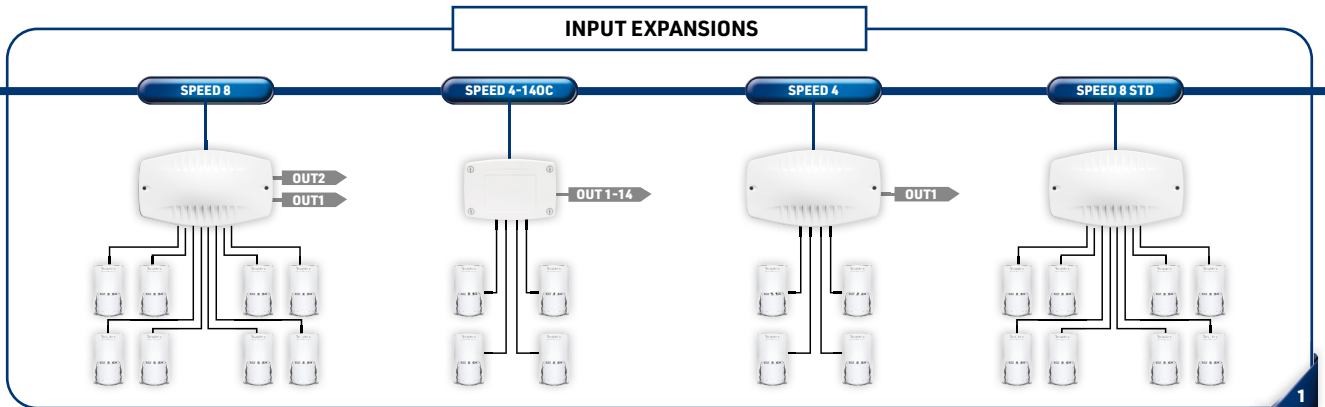


INPUTS	CPU	EV MOD BWL	EV ESP 4IN	SPEED 8 STD	SPEED 4	SPEED 4-140C	SPEED 8
WIRELESS	-	24	-	-	-	-	-
CONVENTIONAL*	-	-	4	8	4	4	8

* 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 inertia.

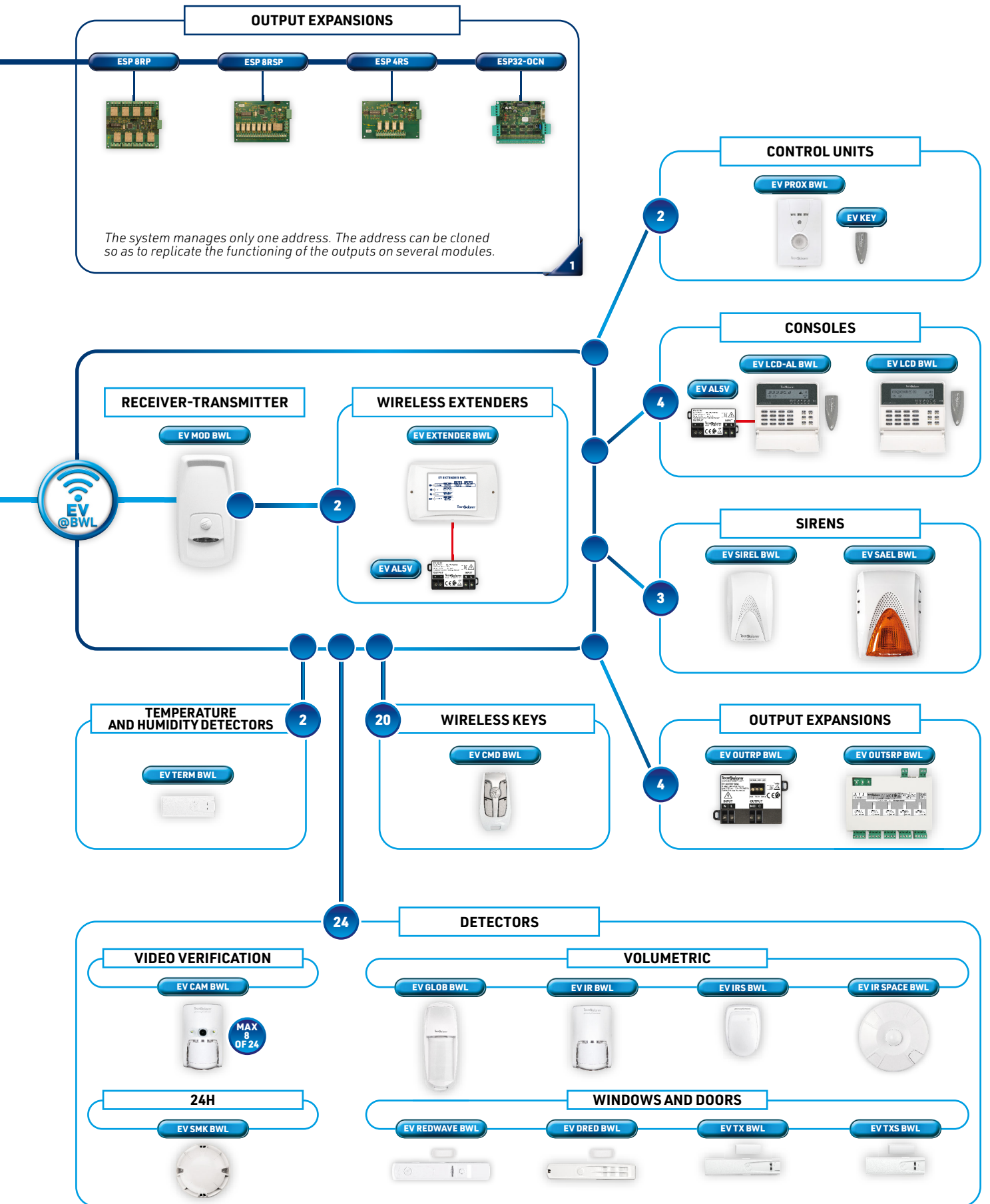
Technical evaluation index	Serial ports			Communication devices			Telematic services and apps				
	SERIAL BUS		WL BUS	4G GSM	IP		TCS	DDNS	evolution		
EV 4-24 4G EV 4-24 4G EN	-	-	-	SP3...5 DP1...DP4	SP3...5	-	-	-	-	-	-
	B			A			A				

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.



Number of connectable devices per type

X Number of managed wireless devices



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 WAN 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 bit and 256 bit data encryption
- 4 + 1 Server TCP/IP channels with access controlled by passphrase and white list
- 8 + 1 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

Technologies and services								
Standard equipment								
Expansions								
Control modes								
Automation								

EV 4-24 4G - Technical and functional specifications

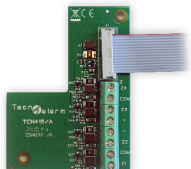






Zones	Total logic zones	24	Telematic services	TCS	✓
	Total hard-wired zones	12		DDNS Tecnoalarm	✓
	Total wireless zones	24		Mail Server Tecnoalarm	✓
				SNTP	✓
Outputs	Outputs	1	Internal expansion	Input expansion	1
	Logic sirens	2			
System features	RS485 serial bus	2	Wireless devices managed	Wireless receiver-transmitter module	1
	Voice synthesis	✓		Extenders	2
	Image memory	Micro SD (optional)		Total detectors	24
	Event buffer capacity	32,256 events		Total synchronized detectors	8
Programs and access management	Programs	6		Consoles	4
	Codes	50		RFID readers	2
	Transponders/RFID	20		Sirens	3
	Wireless keys	20		Output expansions	4
Automation	Timers	8	Serial expansions	Input expansion	1
	Access periods	4		Consoles	2
	Thermostat	2-zone		Output expansions	1
	Calendar	Biennial or perpetual	App	App (iPhone + Android)	evolution
	Memo messages	2			
	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	
Telephone section	Communication formats	IP WAN	Physical specifications	Environmental class	II
		4G LTE		Casing	ABS
	ATE category	SP3...SP5 DP1...DP4		Dimensions (L x H x D)	350 x 285 x 93mm
	Protocols	37		Weight (w/o battery)	2,7kg
	Encryption	AES 128/256 bit	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-6 EN 50136-2
	Passphrase	Programmable		Security grade	2 (EV 4-24 4G EN)
	Event notification channels	8+1		Notified body	IMQ
	Server TCP/IP channels	4+1			
	Client TCP/IP channels	8+1			
	Transmittable events	110			
	Telephone numbers/ IP addresses	2 per channel (max. 24 digits)			
	Call event queue	64			

Internal expansions



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

EV MOD BWL - Technical and functional specifications

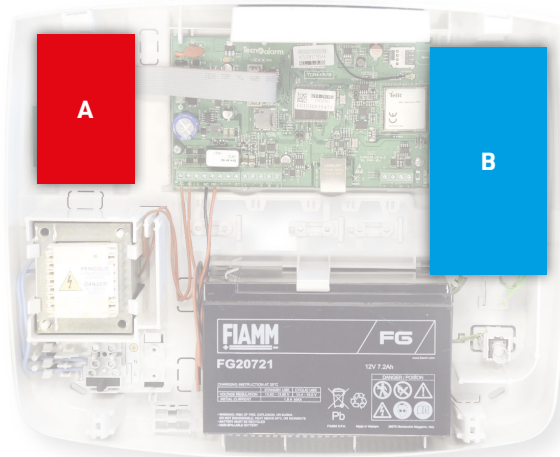
General features	Type	EV MOD BWL	Electrical specifications	Operating voltage	10V...14.5V DC
	Connection	WL Bus RS485		Max. consumption	170mA @ 13.8V DC
Wireless features	Communication protocol	EV@BWL	Physical specifications	Environmental class	II
	Encryption	AES 128bit		Protection class	IP3x-IPK04
	Transmitter-receiver	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 and anti-detachment	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	✓			

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

EV 4-24 4G - Accessories

	SD CARD 4GB		ANTENNA EXTENSION
	4 GB micro SD memory card for EV 4-24 4G - 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.		Multi band GSM antenna extension for EV 4-24 4G - Mounting base included - 3m connection cable
Item no. F127EVCARD4GB		Item no. C126PROLANT3MEV	

MOUNTING POSITIONS



EV 4-24 4G

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

COMMUNICATION DEVICES									
Format	Device	TCS	DDNS	E-mail	APP	RDV®	Software	CMS	Supervisor
GSM	On board	✓			✓	✓	TCP/IP	✓	
IP	On board	✓	✓	✓	✓		TCP/IP	✓	

Wireless extenders

Wireless extenders

EV EXTENDER BWL								
	<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 -</p> <p>Integrated RSC® technology: remote programming and management -</p> <p>Anti-tamper protection: anti-opening/antidetachment, supervision, antijamming -</p> <p>External 5V power supply and rechargeable NiMH batteries included - Surface mounting -</p> <p>Environmental class II (indoor general) - ABS casing - White</p> <p>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>							
Item no. F102EVEXTBWL								

EV EXTENDER BWL - Technical and functional specifications

General features	Type	EV EXTENDER BWL
	Data channel	No
Wireless features	Communication protocol	EV@BWL
	Encryption	AES 128bit
	Transmitter-receiver	UHF
	Frequency band	868MHz
Networking	Modulation	FSK
	Setting	Automatic
	Connexion	End-to-end
Anti-tamper protection	Routing	Dynamic
	Anti-opening and anti-detachment	Micro-switch
	Antijamming	✓
	Supervision	✓

Electrical specifications	Operating voltage	4.5V...6V DC
	Medium consumption	60mA @ 5V DC
	Max. consumption	350mA @ 5V DC
	Batteries NiMH	2 x 1.2V
Physical specifications	Environmental class	II
	Protection class	IP3x
	Casing	ABS
	Dimensions (L x H x D)	165 x 110 x 41mm
	Weight	336g
Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-5-3
	Security grade	2
	Certification	Pending

evolution

Consoles and control units

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) - Please refer to the Sales Department									
Item no. F127EV430PROXG (gray) - Please refer to the Sales Department									

Consoles and control units

EV 430 PROX - Technical and functional specifications

General features	Type	EV 430 PROX	Anti-tamper protection	Anti-opening/anti-detachment	Micro-switch
	RFID reader	Integrated		Serial bus sabotage	Electronic
	Connection	RS485 Serial Bus		Code error	Electronic
User interface	Display	TFT 4.3" colors	Electrical specifications	Operating voltage	10.5V...14V DC
	Resolution	480 x 272px		Stand-by consumption	50mA @ 13.8V DC
	Touch screen	Capacitive		Max. consumption	130mA @ 13.8V DC
	Infographics	Icons contextual to system status	Physical specifications	Environmental class	II
	Voice synthesis	✓		Protection class	IP4x-IK04
	Speaker	✓		Casing	ASA
	Buzzer signals	✓		Dimensions (L x H x D)	154 x 104.6 x 23mm
	Programs managed	6		Weight	230g
	Remote controls managed	6	Conformity	Standards	EN 50131-1 EN 50131-3
Thermostats managed	2	Security grade		2	
		Notified body		Pending	

evolution

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 (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
	RFID reader	Integrated
	Connection	RS485 Serial Bus
User interface	Display	Graphic
	Infographics	Icons contextual to system status
	Voice synthesis	✓
	Speaker	Multifunction
	Buzzer alerts management	✓
	Programs managed	6
	Remote controls managed	6
Anti-tamper protection	Chronothermostat management	✓
	Anti-opening/antidetachment	Micro-switch

Electrical specifications	Operating voltage	10.5V...14V DC
	Stand-by consumption	30mA @ 13.8V DC
	Max. consumption	40mA @ 13.8V DC
Physical specifications	Environmental class	II
	Protection class	IP3x-IPK04
	Casing	ASA
	Dimensions (L x H x D)	150 x 126 x 31mm
	Weight	354g
Conformity	Standards	EN 50131-1 EN 50131-3
	Security grade	2
	Notified body	IMQ

EV LCD - 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-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 - 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	Lithium battery	SOCL2 - 3.6V
	RFID reader	Integrated		Rated voltage external power supply	5V DC
User interface	Display	Graphic	Physical specifications	Battery life	> 2 years
	Infographics	Icons contextual to system status		Environmental class	II
	Buzzer	✓		Protection class	IP3x-IPK04
	Buzzer alerts management	✓		Casing	ASA
	Programs managed	6		Dimensions (L x H x D)	150 x 126 x 31mm
	Remote controls managed	6		Weight	400g
Wireless features	Chronothermostat management	✓	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-5-3
	Communication protocol	EV@BWL		Security grade	2
	Transmitter-receiver	UHF		Certification	Pending
	Frequency band	868MHz			
Anti-tamper protection	Modulation	FSK			
	Anti-opening and anti-detachment	Micro-switch			
	Supervision	✓			

EV LCD-AL BWL - 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>		<p>EV AL5V</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								

EV LCD BWL - Technical and functional specifications

General features	Type	EV LCD BWL	Anti-tamper protection	Anti-opening and anti-detachment	Micro-switch
	RFID reader	Integrated		Supervision	✓
User interface	Display	Graphic	Electrical specifications	Lithium battery	SOCL2 - 3.6V
	Infographics	Icons contextual to system status		Battery life	> 3 years
	Buzzer	✓	Physical specifications	Environmental class	II
	Buzzer alerts management	No		Protection class	IP3x-1K04
	Programs managed	6		Casing	ASA
	Remote controls managed	6		Dimensions (L x H x D)	150 x 126 x 31mm
	Chronothermostat management	✓		Weight	386g
Wireless features	Communication protocol	EV@BWL	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-5-3
	Transmitter-receiver	UHF		Security grade	2
	Frequency band	868MHz		Notified body	IMQ
	Modulation	FSK			

EV LCD BWL - 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 PROX BWL	
	<p>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</p>
Item no. F102EVPROXBWL	








EV PROX BWL - Technical and functional specifications

General features	Type	EV PROX BWL
User interface	Signaling LED	4
	Selection key	Backlit
	Buzzer	✓
	Programs managed	3
Wireless features	Communication protocol	EV@BWL
	Transmitter-receiver	UHF
	Frequency band	868MHz
	Modulation	FSK
Anti-tamper protection	Anti-opening and anti-detachment	Micro-switch
	Supervision	✓

Electrical specifications	Lithium battery	SOCL2 - 3.6V
	Battery life	> 3 years
Physical specifications	Environmental class	II
	Protection class	IP3x
	Casing	ASA
	Dimensions (L x H x D)	68 x 110 x 25mm
	Weight	144g
Conformity	Standards	EN 50131-1 EN 50131-3 EN 50131-5-3
	Security grade	2
	Certification	Pending

EV PROX BWL - 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 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. F102EVCMBWL						

EV CMD BWL - Technical and functional specifications

General features	Type	EV CMD BWL
User interface	Command keys	3
	Query key	1
	Signaling LED	4
Programmable functions	Program management	✓
	Remote control management	✓
	Attributes	✓
Wireless features	Communication protocol	EV@BWL
	Transmitter-receiver	UHF
	Frequency band	868MHz
	Modulation	FSK

Electrical specifications	Lithium battery	CR2450 - 3V
	Battery life	> 1 year
Physical specifications	Casing	ASA
	Dimensions (L x H x D)	48 x 80 x 15mm
	Weight	73g
Conformity	Standard	EN 50131-1 EN 50131-3 EN 50131-5-3
	Security grade	2
	Notified body	IMQ



Detectors for indoor use

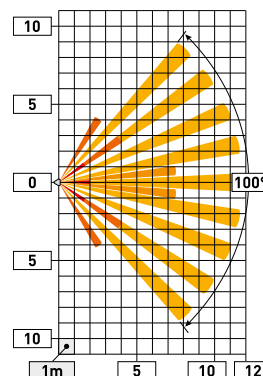
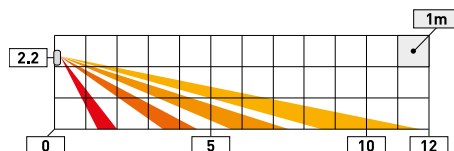
EV IRS BWL						
	2-way wireless passive infrared detector - Volumetric protection: 22 infrared beams, 4 levels, 100° coverage, 10m maximum range - Programmable pulse count - Integrated RSC® technology: remote programming and management - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Surface mounting - Environmental class II (indoor general) - ASA casing - Design by Pininfarina - White					
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°, range 10m
	Pulse count	Programmable
Wireless features	Communication protocol	EV@BWL
	Transmitter-receiver	UHF
	Frequency band	868MHz
	Modulation	FSK
Anti-tamper protection	Anti-opening and anti-detachment	Micro-switch
	Supervision	✓

Electrical specifications	Lithium 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

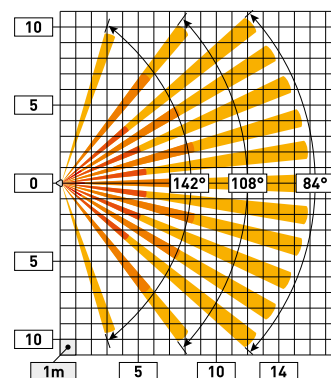
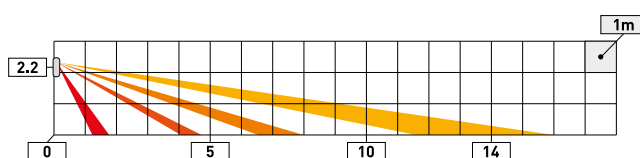
EV IR BWL - Technical and functional specifications

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

Electrical specifications	Lithium 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

evolution

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

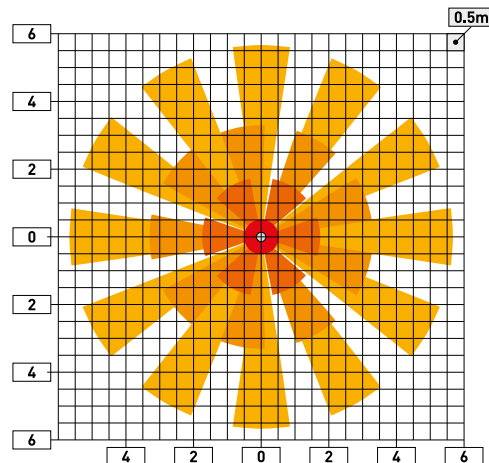
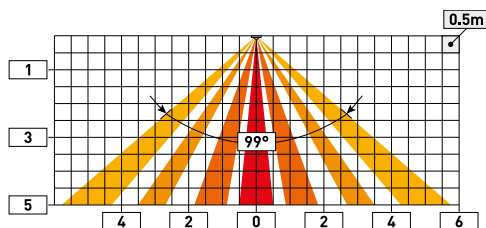
EV IRSPACE BWL - Technical and functional specifications

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
Wireless features	Communication protocol	EV@BWL
	Transmitter-receiver	UHF
	Frequency band	868MHz
	Modulation	FSK
Anti-tamper protection	Anti-opening and anti-detachment	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
	Certification	Pending

evolution

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

EV CAM BWL Item no. F102EVCAMBWL (wide angle)

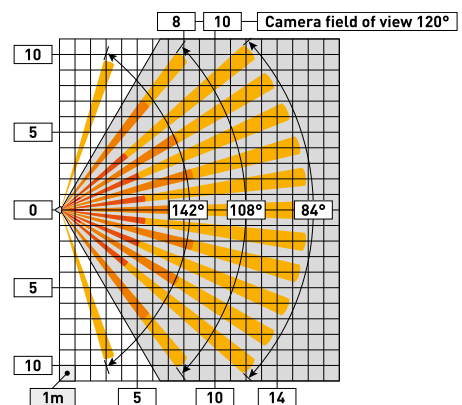
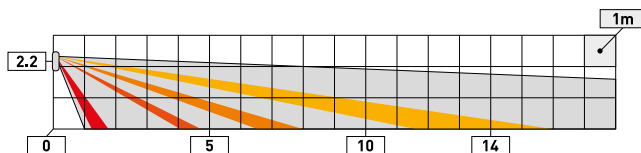
EV CAM BWL/PET Item no. F102EVCAMBWLPET (pet-immunity)

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°, range 14m
	Pulse count	Programmable
Camera features	Coverage	10m - 120°
	Integrated illuminator	White light
	Resolution	Programmable
	Photo per event	1 to 6
	Events per session	1 to 10
Wireless features	Communication protocol	EV@BWL
	Transmitter-receiver	UHF
	Frequency band	868MHz
	Modulation	FSK

Anti-tamper protection	Anti-opening and anti-detachment	Micro-switch
	Supervision	✓
Electrical specifications	Lithium 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	Approved for certified systems EN 50131
	Swivel mounting bracket with H±45°, V-15° orientation - Surface mounting - Anti-tamper protection: anti-opening/antidetachment - Approved for certified detectors	
	Item no. F102SNODO2000	

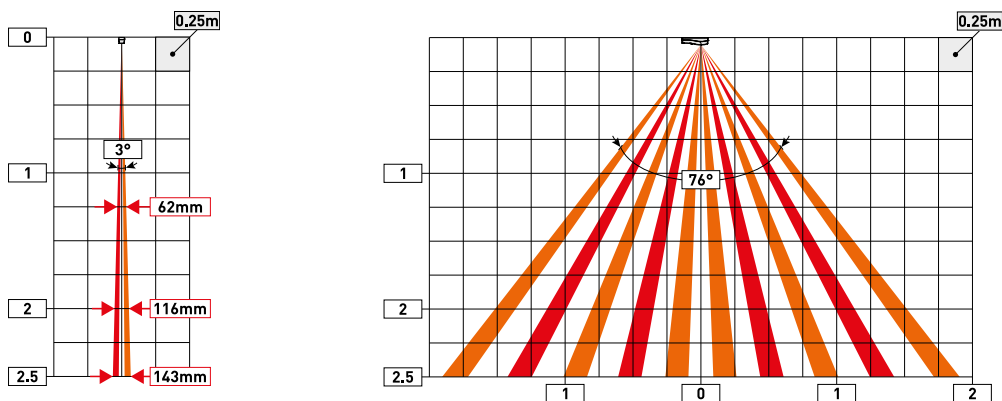











EV DRED BWL									
	<p>2-way wireless detector for protection of openings, windows and doors - 2 independent detection units (dual ID): dual PIR element (ID1), internal contact and/or input for external device (ID2) - Volumetric protection: 10 infrared beams, 2 levels, coverage 76° on the horizontal, 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 and anti-detachment	Micro-switch
	Two independent units	ID1 and ID2		Supervision	✓
Detection features ID1 IR+IR	Infrared detector	2 dual PIE elements	Electrical specifications	Lithium 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
	Programmable detection parameters for each IR	Delay Pulse count 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 external contact	Magnetic contact Rope contact Vibration detector		Security grade	2
	Filter	Programmable		Notified body	IMQ
Wireless features	Communication protocol	EV@BWL			
	Transmitter-receiver	UHF			
	Frequency band	868MHz			
	Modulation	FSK			

Coverage diagrams

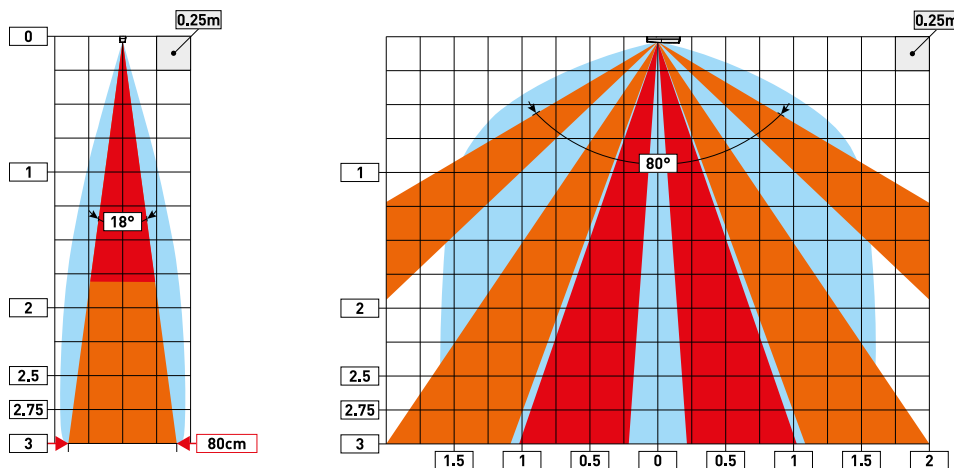


	EV REDWAVE BWL									
	<p>2-way wireless detector for protection of openings, windows and doors - 2 independent detection units (dual ID): dual PIR + microwave element (ID1), internal contact and/or input for external device (ID2) - Volumetric protection: 6 infrared beams, 1 level, coverage 80° on 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 and anti-detachment	Micro-switch
	Two independent units	ID1 and ID2		Supervision	✓
Detection features ID1 IR+MW	Infrared detector	Dual PIR element	Electrical specifications	Lithium battery	SOCL2 - 3.6V
	Infrared beams	6		Battery life	> 3.5 years
	Levels (infrared beams)	1	Physical specifications	Environmental class	II
	MW frequency	24GHz		Protection class	IP4x-IK04
	Coverage	H 80°, V 18°, 3m range		Casing	ASA
	Detection logic	Dynamic AND		Dimensions (L x H x D)	180 x 33 x 32mm
	Programmable detection parameters	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 external contact		Magnetic contact Rope contact Vibration detector	Certification	Pending
	Filter	Programmable			
Wireless features	Communication protocol	EV@BWL			
	Transmitter-receiver	UHF			
	Frequency band	868MHz			
	Modulation	FSK			

Coverage diagrams





EV TX BWL							
	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 casing						
	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	Electrical specifications	Lithium battery	CR2 - 3V
	Two independent units	ID1 and ID2		Battery life	> 4 years
Detection features	Reed (ID1)	Excludable	Physical specifications	Environmental class	II
	2 inputs for external devices (ID1 + ID2)	Magnetic contact		Protection class	IP3x-IK04
	Filter	Rope contact		Casing	ABS
	Vibration detector	Dimensions (L x H x D)		121 x 25 x 28mm	
	Programmable	Weight		95g	
Wireless features	Communication protocol	EV@BWL	Conformity	Standards	EN 50131-1 EN 50131-2-6 EN 50131-5-3
	Transmitter-receiver	UHF		Security grade	2
	Frequency band	868MHz		Notified body	IMQ
	Modulation	FSK			
Anti-tamper protection	Anti-opening and anti-detachment	Micro-switch			
	Supervision	✓			

EV TXS BWL							
	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 casing						
	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	Electrical specifications	Lithium battery	CR2 - 3V
	Contact	Reed		Battery life	> 4 years
Detection features	Communication protocol	EV@BWL	Physical specifications	Environmental class	II
	Transmitter-receiver	UHF		Protection class	IP3x-IK04
	Frequency band	868MHz		Casing	ABS
	Modulation	FSK		Dimensions (L x H x D)	91 x 25 x 28mm
				Weight	80g
Wireless features	Communication protocol	EV@BWL	Conformity	Standards	EN 50131-1 EN 50131-2-6 EN 50131-5-3
	Transmitter-receiver	UHF		Security grade	2
	Frequency band	868MHz		Notified body	IMQ
	Modulation	FSK			
Anti-tamper protection	Anti-opening and anti-detachment	Micro-switch			
	Supervision	✓			

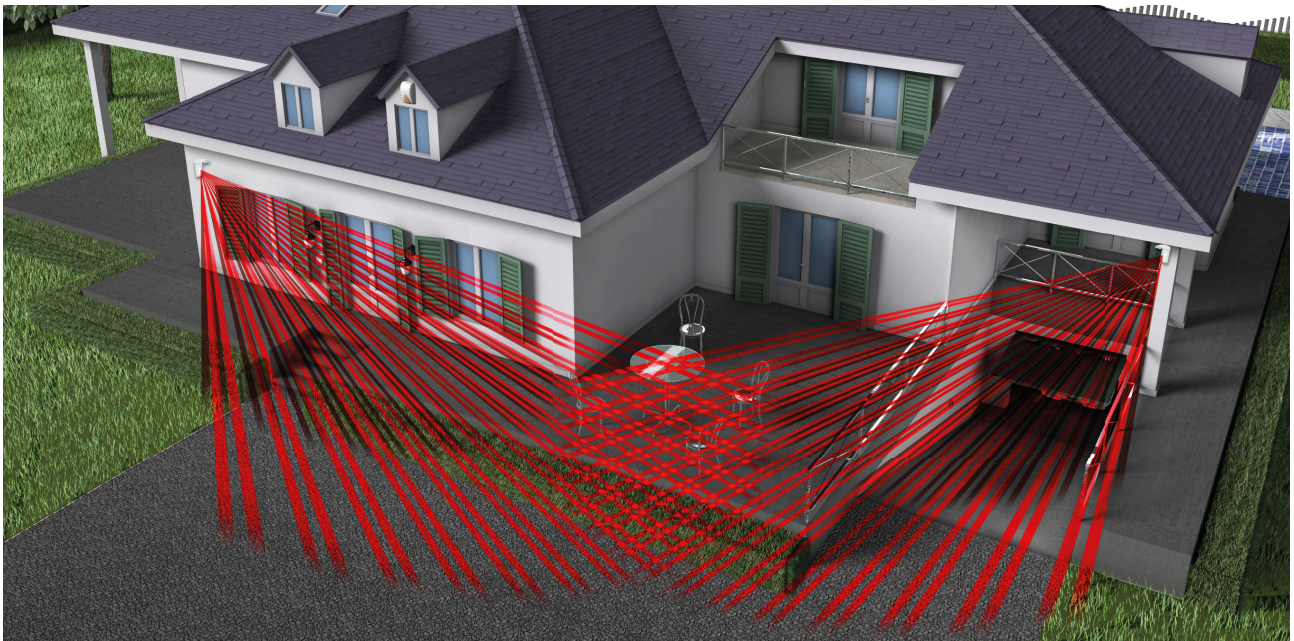
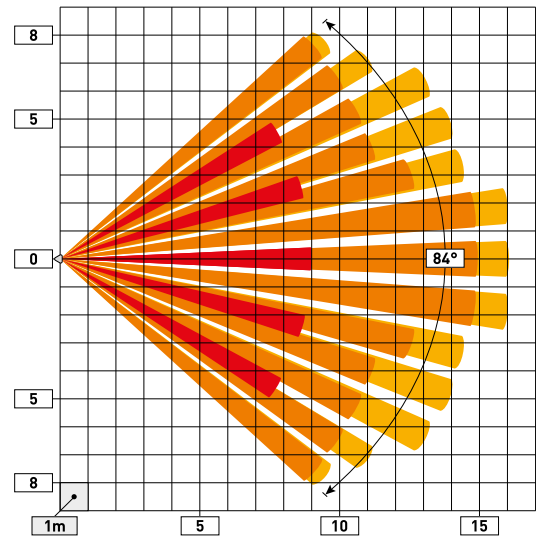
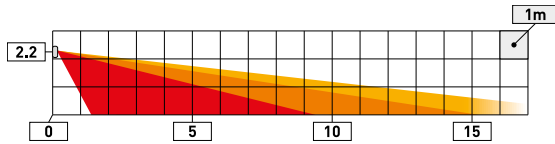
Detectors for outdoor use

EV GLOB BWL	 EN 50131	 RSC	 868MHz 2-WAY	 3 IR AND OR LOGIC	 COVERAGE 15m 84°	 ANTI-MASK	 TEMPERATURE COMPENSATION	 SECURITY GRADE 2	 CLASS III SHELTERED OUTDOOR
	<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, sensitivity and validity 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, supervision, antimasking - 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 and anti-detachment	Micro-switch
Detection features	Infrared detector	3 dual PIR elements	Electrical specifications	Antimasking	Programmable
	Infrared beams	43		Supervision	✓
	Levels (infrared beams)	5		Physical specifications	Lithium battery
	Coverage	84°, 15m range	Battery life		> 3.8 years
	Adjustable coverage	Shutter	Environmental class		III
	Standard detection logic	3 AND programmed	Protection class		IP44-IK04
	Custom detection logic	7 AND-OR programmable	Casing		ASA
	Programmable detection parameters for each IR	Pulse count Delay Sensitivity	Dimensions (L x H x D)	76 x 192 x 83mm	
Temperature compensation	Automatic	Weight	400g		
Wireless features	Communication protocol	EV@BWL	Conformity	Standard	EN 50131-1 EN 50131-2-2 EN 50131-5-3
	Transmitter-receiver	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>






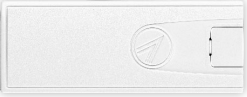
Optical smoke detectors

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	Detection technology	Tyndall effect	Electrical specifications	Lithium battery	SOCL2 - 3.6V
	Sensitivity	Programmable		Battery life	> 2 years
	Coverage	5m	Physical specifications	Environmental class	II
Wireless features	Communication protocol	EV@BWL		Protection class	IP22-1K02
	Transmitter-receiver	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	✓	Electrical specifications	Lithium battery	CR2032 - 3V
	Humidity	✓		Battery life	> 3 years
Wireless features	Communication protocol	EV@BWL	Physical specifications	Environmental class	II
	Transmitter-receiver	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>
Item no. F127EVOUTRPBWL	

EV OUTRP BWL - Technical and functional specifications











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

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>
Item no. F127EVOUT5RPBWL	

EV OUT5RP BWL - Technical and functional specifications

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

Indoor sirens

<p>EV SIREL BWL</p>									
	<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> <p>Item no. F102EVSIRELBWL</p>								

EV SIREL BWL - Technical and functional specifications

General features	Type	EV SIREL BWL	Test functions	Check	Transmitter-receiver Horn
Acoustic specifications	Sound level (main axis)	98dB(A) @ 1m	Electrical specifications	Lithium battery	SOCL2 - 3.6V
	Frequency	1000Hz...1460Hz		Battery life	> 4 years
Programmable functions	Program association	Programmable	Physical specifications	Environmental class	II
	Siren mode	Indoor / Outdoor		Protection class	IP3x-IK06
	Signaling volume	4 settings		Casing	ASA
	Signaling modes	Alarm Technical alarm Prealarm		Dimensions (L x H x D)	105 x 160 x 44mm
Wireless features	Communication protocol	EV@BWL		Conformity	Standard
	Transmitter-receiver	UHF	Security grade		2
	Frequency band	868MHz	Notified body		IMQ
	Modulation	FSK			
Anti-tamper protection	Anti-opening and anti-detachment	Micro-switch			
	Supervision				



Outdoor sirens

EV SAEL BWL									
	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 - System status signal - 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								
Item no. F102EVSAELBWL									


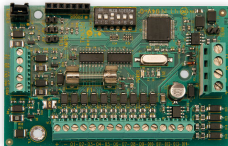

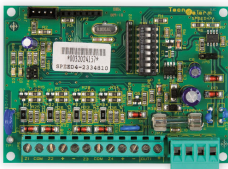





Outdoor sirens

EV SAEL BWL - Technical and functional specifications




General features	Type	EV SAEL BWL	Test functions	Check	Transmitter-receiver Horn Flashlight
Acoustic specifications	Sound level (main axis)	100dB(A) @ 1m	Electrical specifications	Lithium battery	SOCL2 - 3.6V
	Frequency	1050Hz...2950Hz		Battery life	> 3 years
Programmable functions	Program association	Programmable	Physical specifications	Environmental class	III
	Siren mode	Indoor / Outdoor		Protection class	IP43-IPK07
	Signaling volume	4 settings		Casing	ABS + ASA
	Sound types	3 modes		Dimensions (L x H x D)	169 x 252 x 80mm
	Signaling modes	Alarm Technical alarm Prealarm Chime		Weight	879g
Wireless features	Communication protocol	EV@BWL	Conformity	Standard	EN 50131-1 EN 50131-4 EN 50131-5-3
	Transmitter-receiver	UHF		Security grade	2
	Frequency band	868MHz		Notified body	IMQ
	Modulation	FSK			
Anti-tamper protection	Anti-opening and anti-detachment	Micro-switch			
	Supervision	✓			

evolution

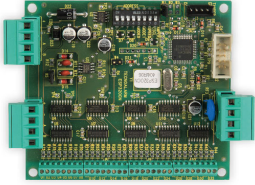
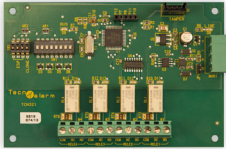
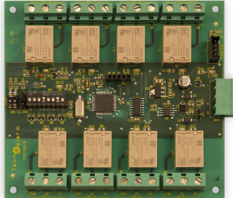
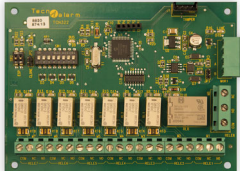
Serial input expansions

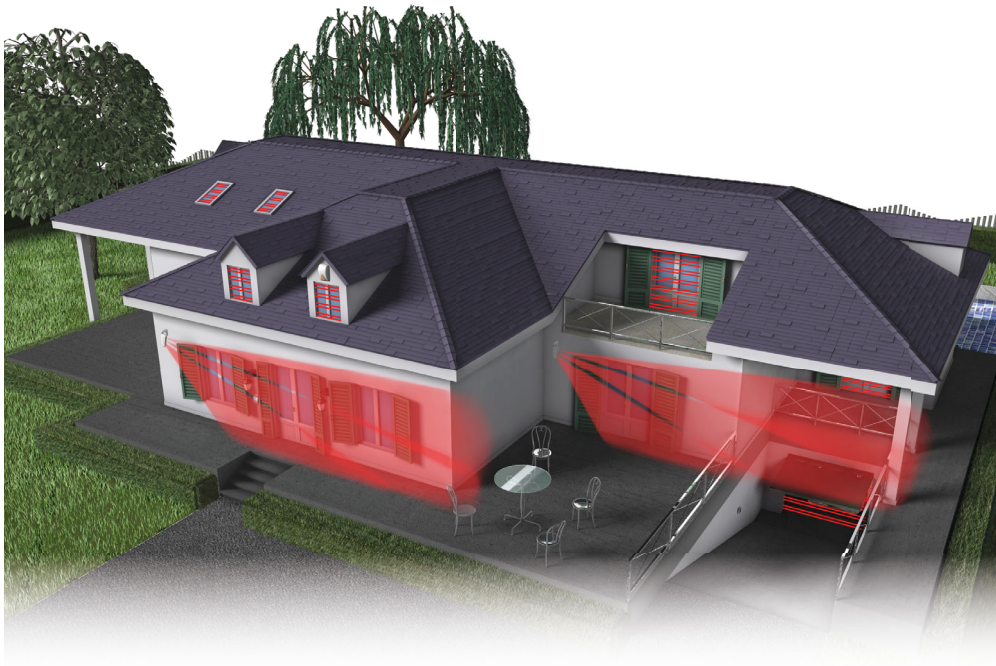
SPEED 4-140C			4 INPUTS	14 O.C. OUTPUTS	SECURITY GRADE 2	CLASS II GENERAL INDOOR
	Input/output expansion - RS485 connection - 4 inputs connecting conventional and RDV® detectors from Tecnoalarm - 14 programmable open-collector outputs - Anti-tamper protection: retrofittable with tamper switch, serial bus sabotage N.B. Compatible C80 casing is optional Item no. F101SPEED4140C					
SPEED 4			4 INPUTS	1 INPUT	SECURITY GRADE 2	CLASS II GENERAL INDOOR
	Input/output expansion - RS485 connection - 4 inputs connecting conventional and RDV® detectors from Tecnoalarm - 1 programmable open-collector output - Anti-tamper protection: retrofittable with tamper switch, serial bus sabotage N.B. Compatible C100P or C90 casings are optional Item no. F101SPEED4					
SPEED 8			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 8 STD				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					

SERIAL INPUT EXPANSIONS - Accessories

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

Serial output expansions

<p>ESP32-OCN</p>		<p>16 O.C. OUTPUTS</p>	<p>SECURITY GRADE 2</p>	<p>CLASS II GENERAL INDOOR</p>	
	<p>Expansion module with 32 programmable open-collector outputs - RS485 connection - Anti-tamper protection: retrofittable with tamper switch, serial bus sabotage N.B. The control panel manages a total of 16 outputs</p>				
<p>Item no. F127ESP32OCN</p>					
<p>ESP 4RS</p>		<p>4 OUTPUTS 0.3A 24V DC</p>	<p>SECURITY GRADE 2</p>	<p>CLASS II GENERAL INDOOR</p>	
	<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</p>				
<p>Item no. F127ESP4RS</p>					
<p>ESP 8RP</p>		<p>8 OUTPUTS 4A 250V AC</p>	<p>SECURITY GRADE 2</p>	<p>CLASS II GENERAL INDOOR</p>	
	<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</p>				
<p>Item no. F127ESP8RP</p>					
<p>ESP 8RSP</p>		<p>7 OUTPUTS 0.3A 24V DC</p>	<p>1 OUTPUTS 4A 250V AC</p>	<p>SECURITY GRADE 2</p>	<p>CLASS II GENERAL INDOOR</p>
	<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</p>				
<p>Item no. F127ESP8RSP</p>					



High-technology hard-wired and wireless systems


MADE IN ITALY





Tecn^oalarm[®]



DESIGN BY

pininfarina

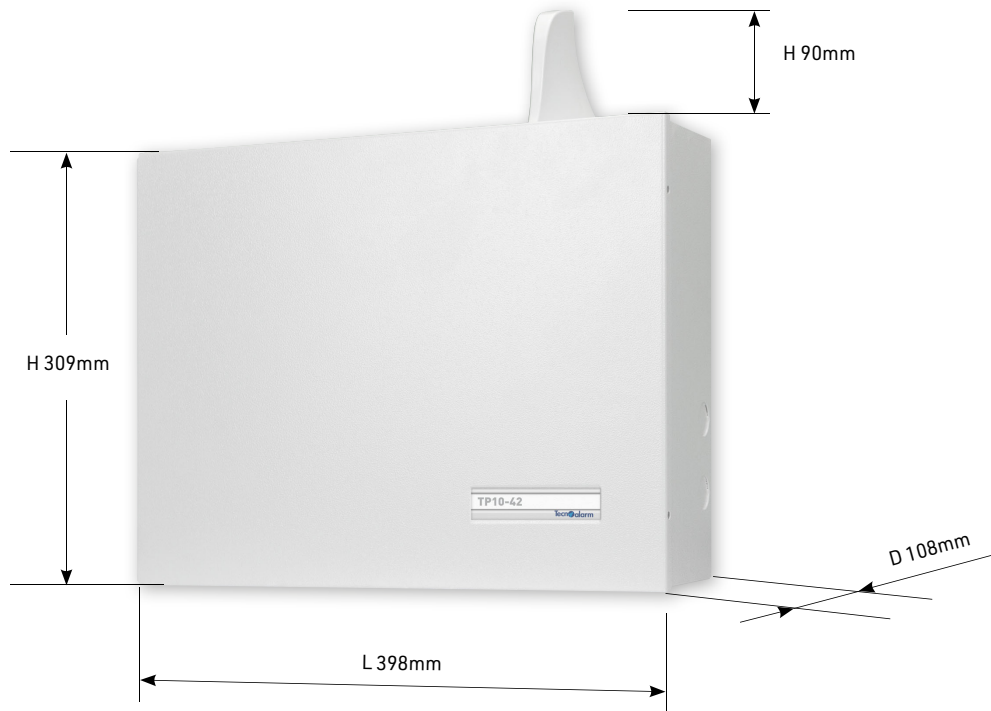
**Hard-wired and wireless systems with 10 to 440 zones
Programming, management and control via TCS**



TP10-42



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



TP10-42

INPUTS	CPU	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

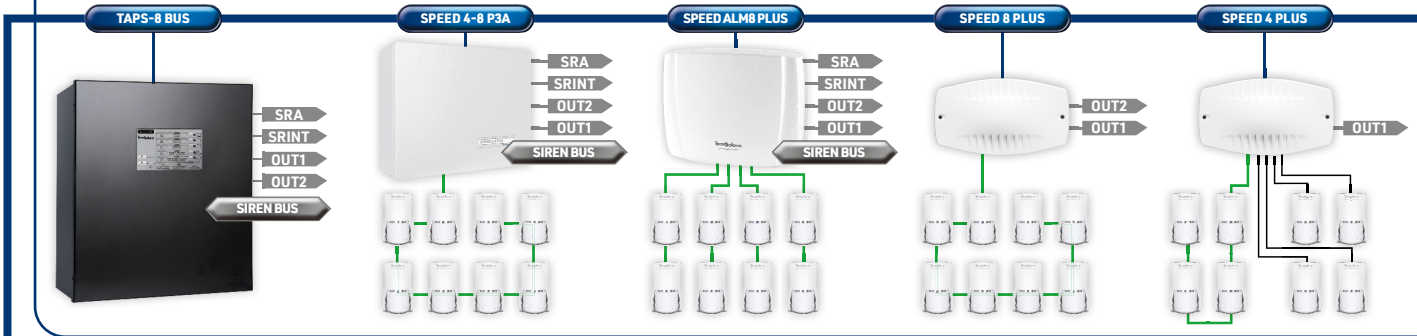
*The following contact types can be programmed: NC (normally closed), NO (normally open), BIL (end-of-line resistor), B24 (double end-of-line resistor). The following filters can be programmed: time, pulse count or inertia.
** The 4 conventional inputs are only available as an alternative to 4 Sensor Bus inputs (max. 8 inputs managed)

Videalarm					
	UTS E	IP cameras	Recording	Viewing	App
	3	24	8		

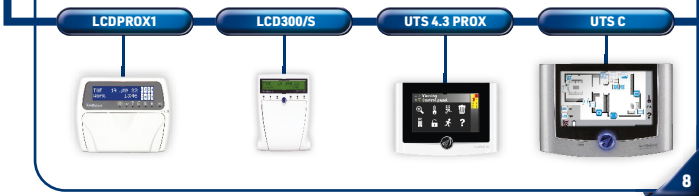
Technical evaluation index	Serial ports			Communication devices				Telematic services and apps					
	SERIAL BUS	SENSOR BUS	SIREN BUS	PSTN	GSM	IP	GSM-EXT	TCS	DDNS	myTecnalarm TCS	myTecnalarm		
TP10-42 TP10-42 EN				-	SP2	SP3...5	SP3...5	SP2			-		
	A			A				A					

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.

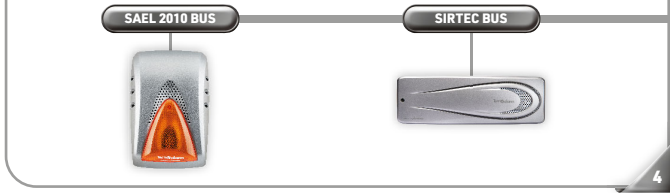
POWER SUPPLIES INPUT EXPANSIONS



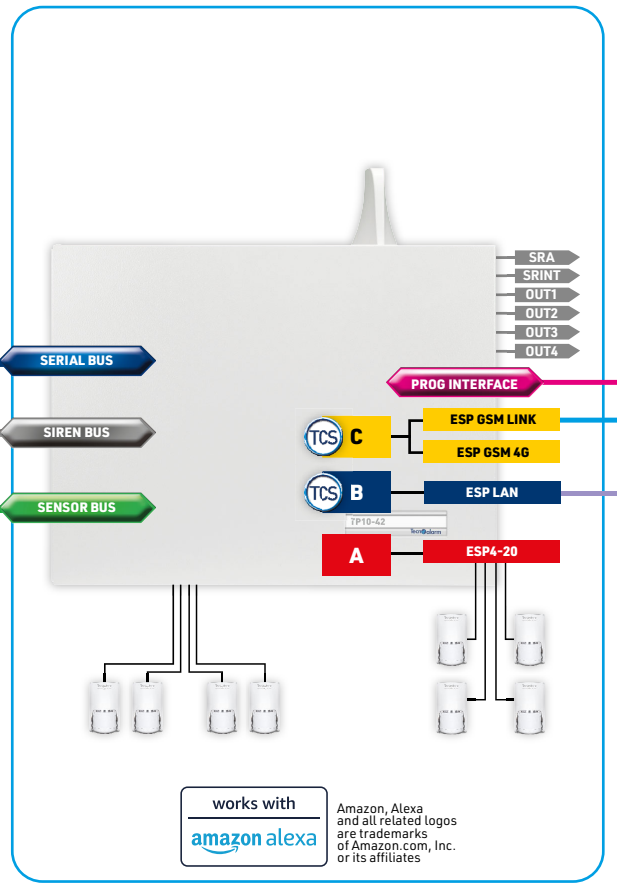
CONSOLES



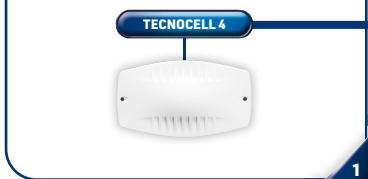
BUS SIRENS



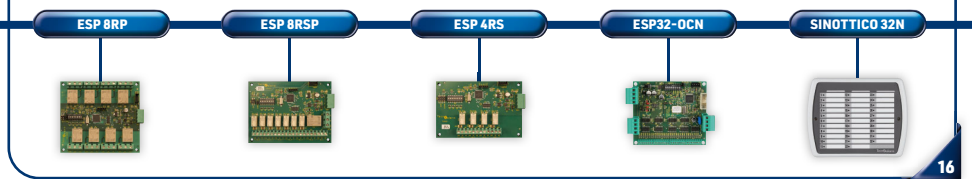
BUS DETECTORS



COMMUNICATORS

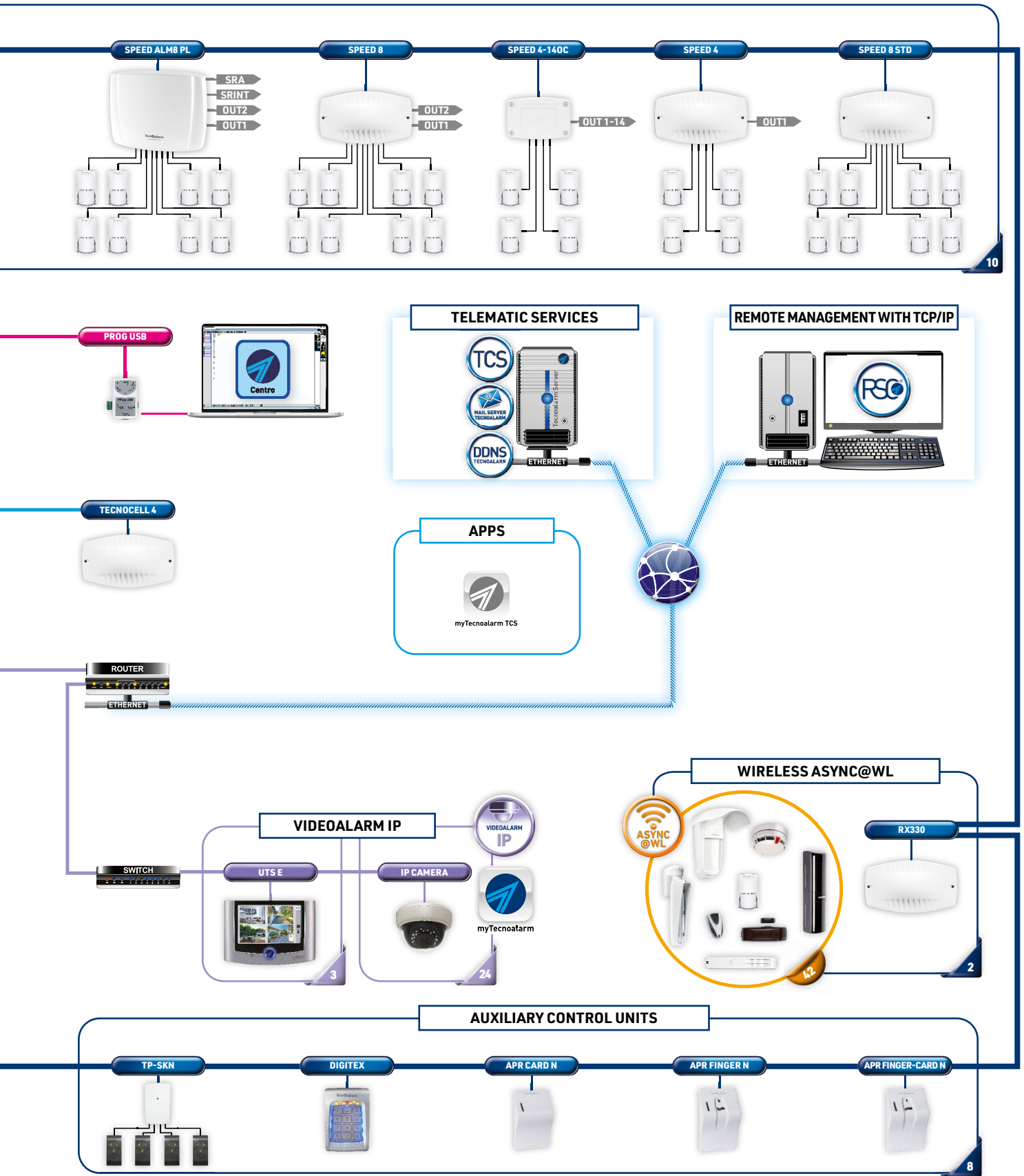


OUTPUT EXPANSIONS



Number of connectable devices per type

Number of managed ASYNC@WL devices



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 WAN 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 bit and 256 bit 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

TP10-42

Technologies and services						
Standard equipment						
Expansions						
Control modes						
Automation						
Advanced features						

TP10-42 - Technical and functional specifications

Zones	Total logic zones	42	Videalarm	Videalarm IP	✓
	CPU hard-wired zones	4 conventional 6 Sensor Bus		Internal expansions	Input expansions
	Total hard-wired zones	42	Serial expansions		Hard-wired input expansions
	Total wireless zones	42		Wireless expansions	2
Outputs	CPU outputs	6		Consoles	8
	Sirens	8		Auxiliary control units	8
System features	RS485 serial bus	3		Output expansions	16
	Voice synthesis	✓		GSM telephone communicator	1
	Event buffer capacity	7,600 events	Bus sirens	4	
Programs and access management	Programs	8	Advanced programming	Actions	1,024
	Codes	122		Timers	512
	Finger prints	96		Counters	128
	Transponders/RFID	100		Telephone index	48 numbers
	Wireless keys	80		Reserved output expansions	4
Automation	Timers	8	Accessory management	App (iPhone - Android)	myTecnoalarm myTecnoalarm TCS
	Access periods	8		Electrical specifications	Operating voltage
	Calendar	Quadrennial or perpetual	CPU board consumption		150mA @ 13.8V DC
	Remote controls	8	Power supply		3A @ 14.4V DC
	Cyclic timers	8	Battery		12V/12Ah
	Test call with TCP/IP	✓	Physical specifications	Environmental class	II
Telephone section	Channels	8		Casing	Metal
	PSTN vector	On-board		Dimensions (L x H x D) (w/o antenna)	398 x 309 x 108mm
	GSM-GPRS vector (optional)	ESP GSM 4G		Antenna height	90mm
	GSM vector (optional)	TECNOCELL 4		Weight (w/o battery)	4.5kg
	IP vector (optional)	ESP LAN	Conformity	Standards	EN 50131-1 EN 50131-3 EN 50136-2
	Transmittable events	157		Security grade	2 (TP10-42 EN)
	Telephone numbers/IP addresses	2 per channel (max. 24 digits)		Notified body	IMQ
	Call event queue	32			
Protocols	203				
Telematic services	DDNS Tecnoalarm	✓			
	SNTP	✓			
	Mail Server Tecnoalarm	✓			
	TCS	✓			

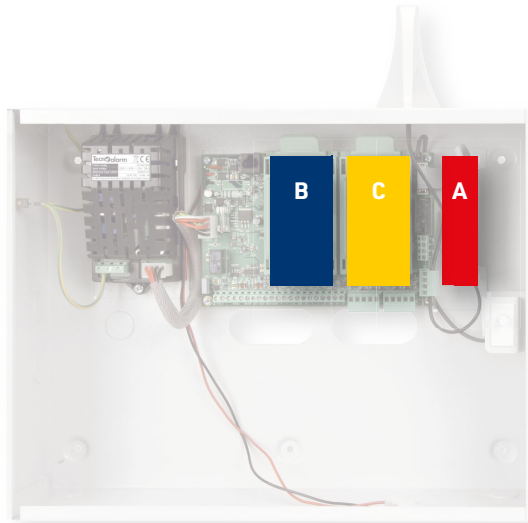
Internal expansions and interfaces

<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 - EN 50131-3 certification</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 with TCP/IP - EN 50131-3 certification</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 with TCP/IP - Compatible with all GSM formats from 2G GPRS to 4G LTE - Manages the VoLTE service - EN 50131-3 certification</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>Advanced programming software plug-in N.B. Function subject to license. Indicate serial number of control panel in order.</p> <p>Item no. F127T42/AV</p>	
-------------------------------	--	--

MOUNTING POSITIONS



TP10-42

TP10-42

MODELS								
Model	Item no.							
TP10-42	F101T42-UK		✓	Optional	Optional	Optional	3A	✓
TP10-42 EN	F101T42EN-UK	Security grade 2	✓	Optional	Optional		3A	✓

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

* Optional communication formats that require the installation of specific interfaces

TP10-42 - Accessories

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

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

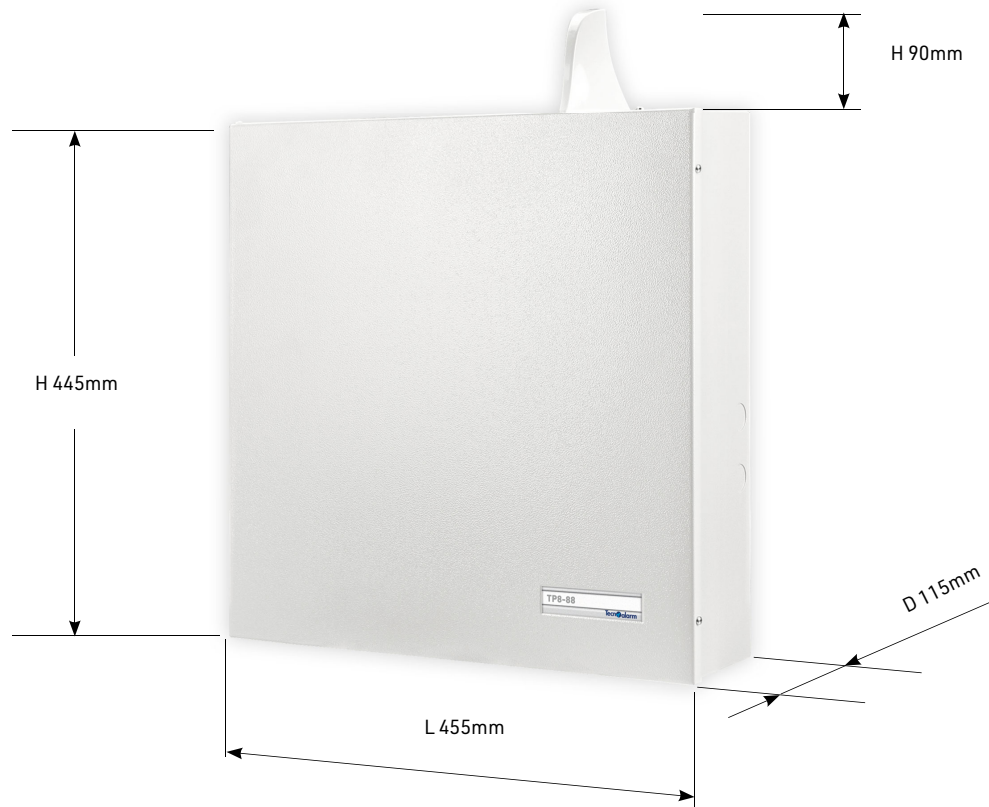
	ANTENNA KIT
	Multi band GSM antenna with magnetic base and 3m extension cord for installing the antenna on metal surfaces
	Item no. C126ANTENNA3GBA



TP8-88



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



TP8-88

INPUTS	CPU	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.

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

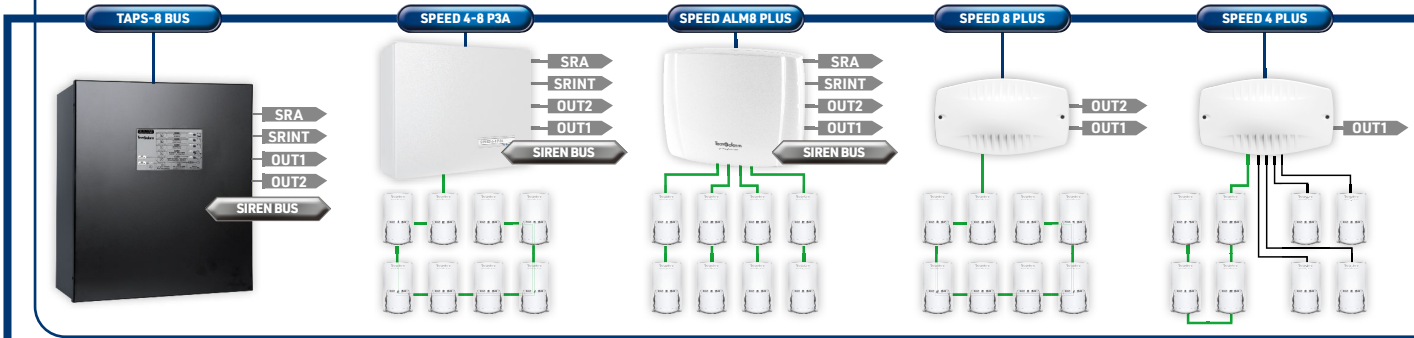
Videalarm					
	UTS E	IP cameras	Recording	Viewing	App
	3	24	8		

Technical evaluation index	Serial ports			Communication devices				Telematic services and apps			
	SERIAL BUS	SENSOR BUS	SIREN BUS	PSTN	GSM	IP	GSM-EXT	TCS	DDNS	myTecnalarm TCS	myTecnalarm
TP8-88											
TP8-88 EN	A	A	A	A	A	A	A	A	A	A	

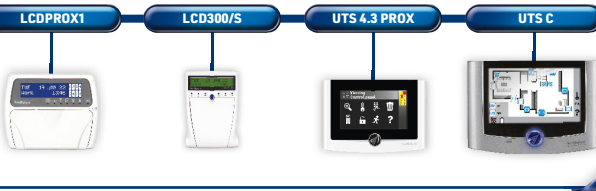
A: excellent - B: good - C: satisfactory - SP: single path - DP: dual path

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.

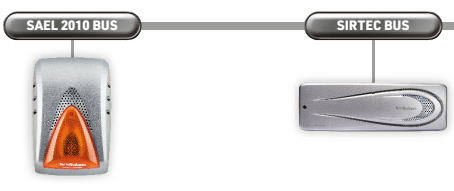
POWER SUPPLIES INPUT EXPANSIONS



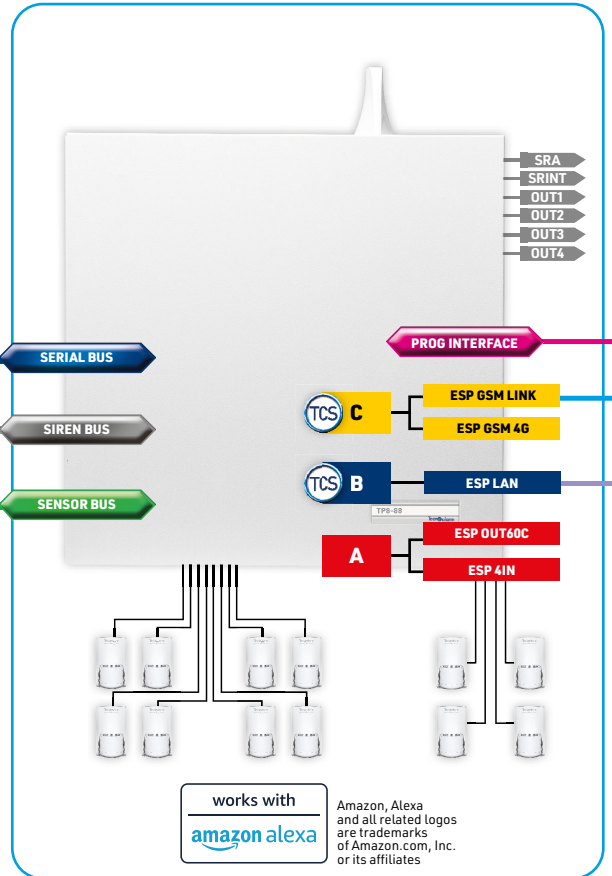
CONSOLES



BUS SIRENS



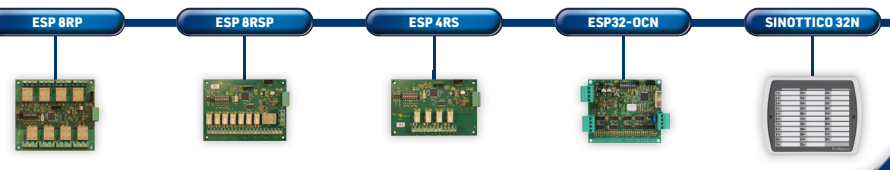
BUS DETECTORS



COMMUNICATORS

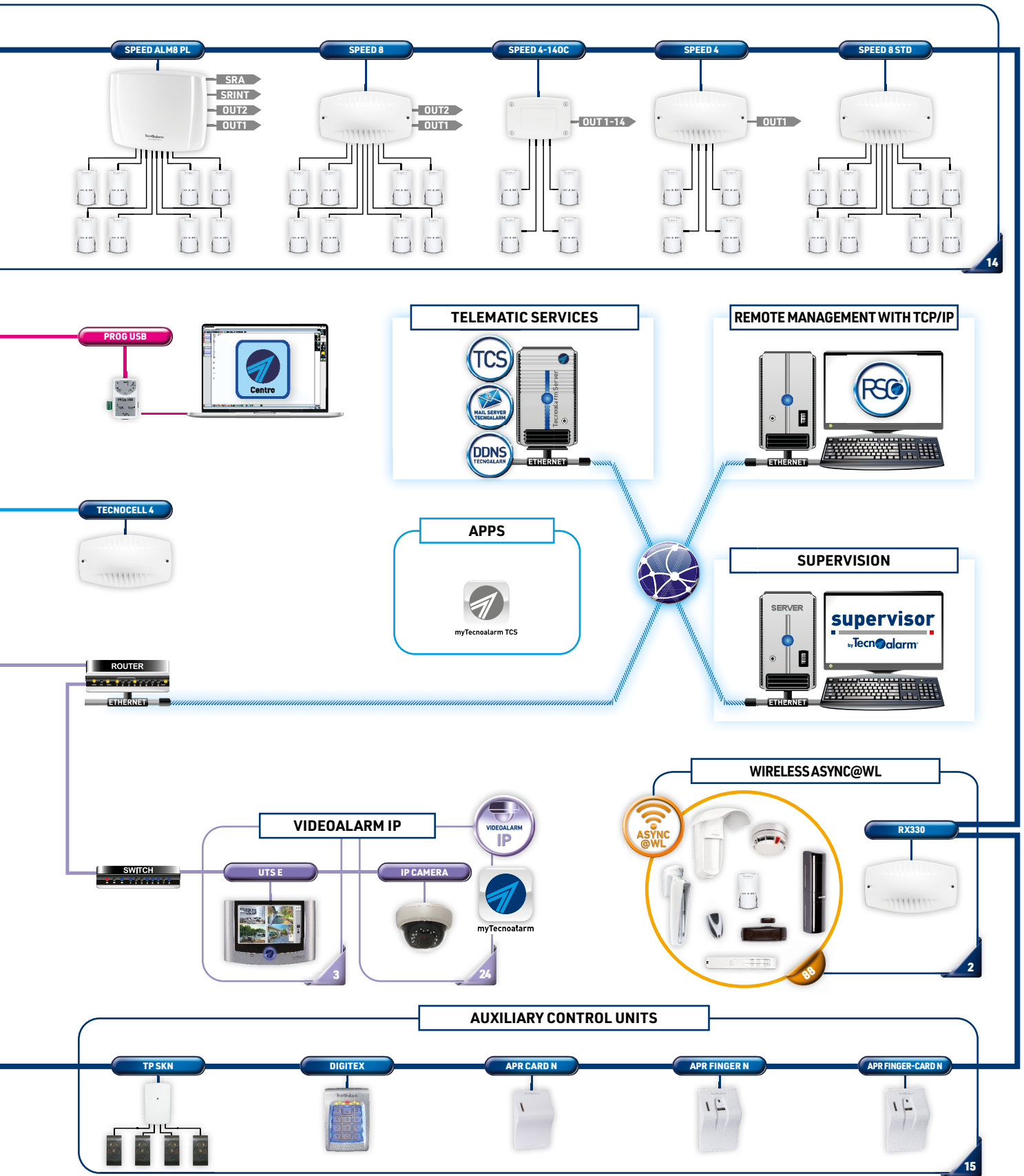


OUTPUT EXPANSIONS



Number of connectable devices per type

Number of managed ASYNC@WL devices



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 WAN 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 bit and 256 bit 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						

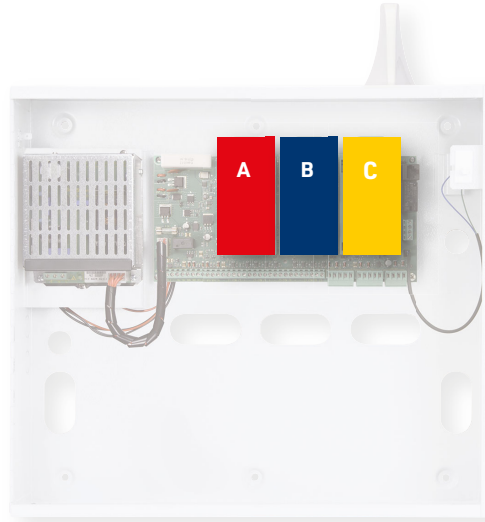
TP8-88 - Technical and functional specifications

Zones	Total logic zones	88	Videalarm	Videalarm IP	✓
	CPU hard-wired zones	8 conventional 8 Sensor Bus		Internal expansions	Input expansions
	Total hard-wired zones	88	Serial expansions		Hard-wired input expansions
	Total wireless zones	88		Wireless expansions	2
Outputs	CPU outputs	6		Consoles	15
	Sirens	8		Auxiliary control units	15
System features	RS485 serial bus	3		Output expansions	16
	Voice synthesis	✓		GSM telephone communicator	1
	Event buffer capacity	7,600 events	Bus sirens	15	
Programs and access management	Programs	16	Advanced programming	Actions	1,024
	Codes	202		Timers	512
	Finger prints	96		Counters	128
	Transponders/RFID	120		Telephone index	48 numbers
	Wireless keys	100		Reserved output expansions	4
Automation	Timers	32	Accessory management	App (iPhone - Android)	myTecnoalarm myTecnoalarm TCS
	Access periods	8		Supervisor	Optional
	Calendar	Quadrennial or perpetual		Tecno out protocol	Optional
	Remote controls	16	Electrical specifications	Operating voltage	230V AC +/- 10% 50Hz
	Cyclic timers	8		CPU board consumption	150mA @ 13.8V DC
	Test call with TCP/IP	✓		Power supply	6A @ 14.4V DC
Telephone section	Channels	8	Batteries	2x 12V/17Ah	
	PSTN vector	On-board	Physical specifications	Environmental class	II
	GSM-GPRS vector (optional)	ESP GSM 4G		Casing	Metal
	GSM vector (optional)	TECNOCELL 4		Dimensions (L x H x D) (w/o antenna)	455 x 445 x 115mm
	IP vector (optional)	ESP LAN		Antenna height	90mm
	Transmittable events	297		Weight (w/o battery)	7kg
	Telephone numbers/ IP addresses	2 per channel (max. 24 digits)		Conformity	Standards
	Call event queue	32	Security grade		3 (TP8-88 EN)
Protocols	203	Notified body	IMQ		
Telematic services	DDNS Tecnoalarm	✓			
	SNTP	✓			
	Mail Server Tecnoalarm	✓			
	TCS	✓			

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 - EN 50131-3 certification</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 - EN 50131-3 certification</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 - EN 50131-3 certification</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 with TCP/IP - Compatible with all GSM formats from 2G GPRS to 4G LTE - Manages the VoLTE service - EN 50131-3 certification</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>						
<h3>SOFTWARE PLUG-INS</h3>							
<p>ADVANCED PROGRAMMING</p>	<p>Advanced programming software plug-in 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>Tecno Out management software plug-in 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		EN 50131	PSTN	GSM-LTE	IP	ADVANCED PROGRAMMING	IP TECNO OUT	POWER SUPPLY	METAL BOX
Model	Item no.								
TP8-88	F101T88-UK		✓	Optional	Optional	Optional	Optional	6A	✓
TP8-88 EN	F101T88EN-UK	Security grade 3	✓	Optional	Optional			6A	✓

COMMUNICATION DEVICES		TCS	DDNS TECHNOALARM	MAIL SERVER TECHNOALARM	myTecnalarm	RDV	Remote management Centro	CMS SERVICE	Supervisor
Vectors	Device	TCS	DDNS	MAIL	APP	RDV®	Remote management	Monitoring	Supervisor
PSTN	On board					✓		✓	
GSM*	ESP GSM 4G	✓			✓	✓	TCP/IP	✓	
	ESP GSM LINK (TECNOCELL 4)	✓			✓	✓	TCP/IP	✓	
GSM-EXT*	TECNOCELL 4							✓	
IP*	ESP LAN	✓	✓	✓	✓		TCP/IP	✓	✓

* Optional communication formats that require the installation of specific interfaces

TP8-88 - Accessories

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

	GSM 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

INPUTS	CPU	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

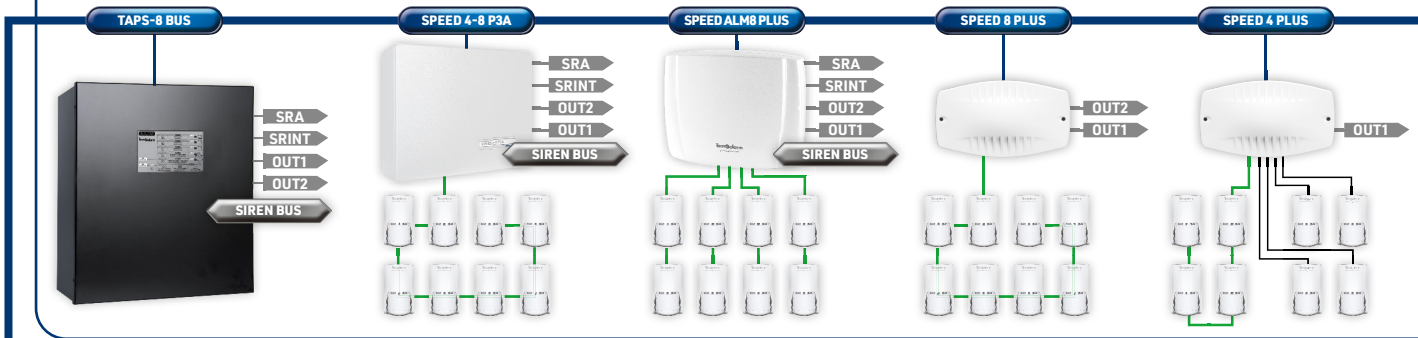
*The following contact types can be programmed: NC (normally closed), NO (normally open), BIL (end-of-line resistor), B24 (double end-of-line resistor). The following filters can be programmed: time, pulse count or inertia.
** The 4 conventional inputs are only available as an alternative to 4 Sensor Bus inputs (max. 8 inputs managed)

Videalarm					
UTS E	IP cameras	Recording	Viewing	App	
3	24	8			

Technical evaluation index	Serial ports			Communication devices				Telematic services and apps			
	SERIAL BUS	SENSOR BUS	SIREN BUS	PSTN	4G GSM	IP	4G GSM-EXT	TCS	DDNS	myTecnalarm TCS	myTecnalarm
TP20-440 TP20-440 EN			-	SP2	SP3...5	SP3...5	SP2				
	A			A				A			

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.

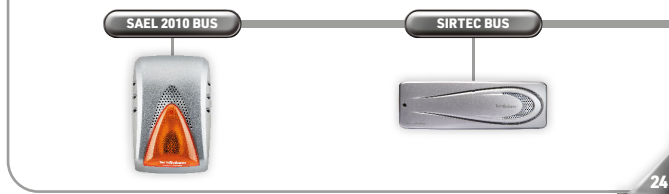
POWER SUPPLIES INPUT EXPANSIONS



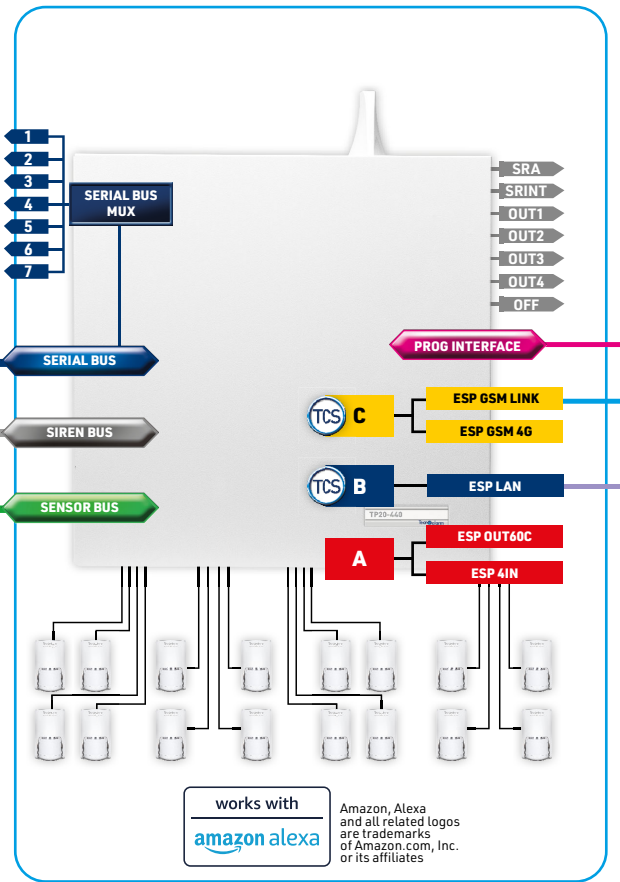
CONSOLES



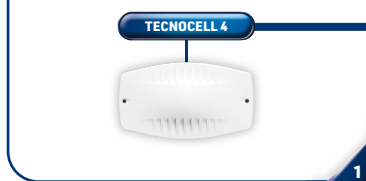
BUS SIRENS



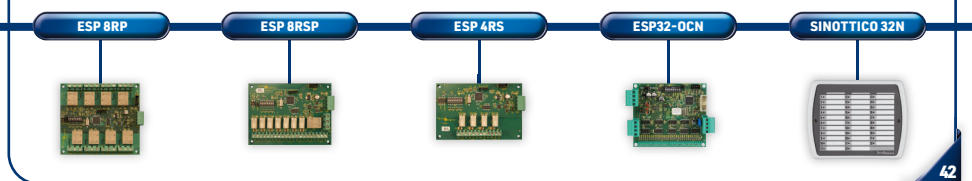
BUS DETECTORS



COMMUNICATORS

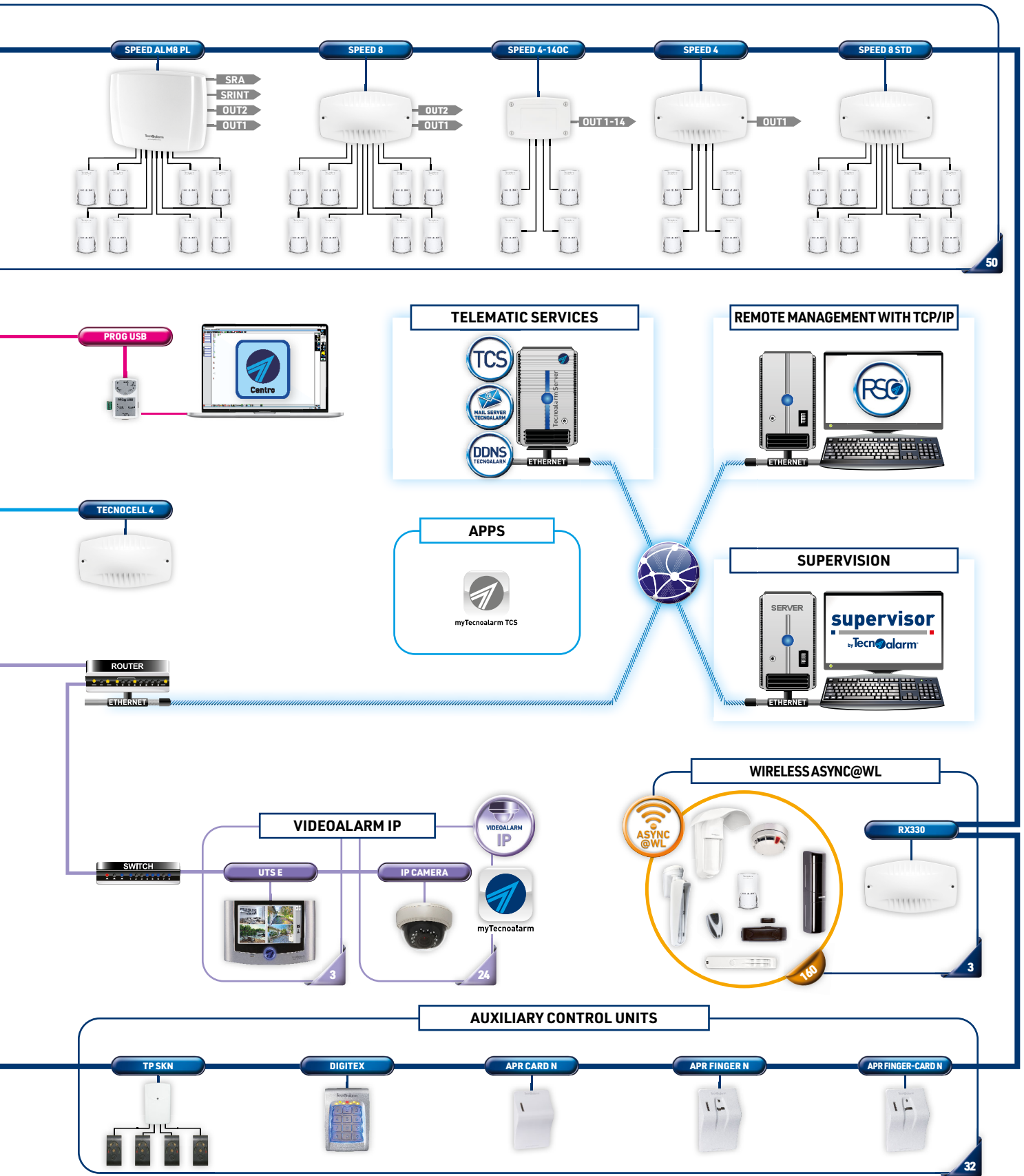


OUTPUT EXPANSIONS



Number of connectable devices per type

Number of managed ASYNC@WL devices



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 WAN 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 bit and 256 bit 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

TP20-440

Technologies and services						
Standard equipment						
Expansions						
Control modes						
Automation						
Advanced features						

TP20-440 - Technical and functional specifications

Zones	Total logic zones	440	Videalarm	Videalarm IP	✓
	CPU hard-wired zones	12 conventional 8 Sensor Bus		Internal expansions	Input expansions
	Total hard-wired zones	424	Serial expansions		Hard-wired input expansions
	Total wireless zones	160		Wireless expansions	3
Outputs	CPU outputs	6		Consoles	32
	Sirens	32		Auxiliary control units	32
System features	RS485 serial bus	3		Output expansions	42
	Voice synthesis	✓		GSM telephone communicator	1
	Event buffer capacity	32,000 events	Bus sirens	24	
Programs and access management	Programs	32	Advanced programming	Actions	2,048
	Codes	1,000		Timers	512
	Finger prints	96		Counters	256
	Transponders/RFID	1,000		Telephone index	48 numbers
	Wireless keys	250		Reserved output expansions	16
Automation	Timers	64	Accessory management	App (iPhone + Android)	myTecnoalarm myTecnoalarm TCS
	Access periods	16		Supervisor	Optional
	Calendar	Quadrennial or perpetual		Tecno out protocol	Optional
	Remote controls	32	Electrical specifications	Operating voltage	230V AC +/- 10% 50Hz
	Cyclic timers	10		CPU board consumption	190mA @ 13.8V DC
	Test call with TCP/IP	✓		Power supply	8A @ 14.4VDC
Telephone section	Channels	8	Batteries	2x 12V/17Ah	
	PSTN vector	On-board	Physical specifications	Environmental class	II
	GSM vector (optional)	ESP GSM 4G		Casing	Metal
	GSM-EXT vector (optional)	TECNOCELL 4		Dimensions (L x H x D) (w/o antenna)	455 x 445 x 115mm
	IP vector (optional)	ESP LAN		Antenna height	90mm
	Transmittable events	1,097		Weight (w/o battery)	7.8kg
	Telephone numbers/ IP addresses	2 per channel (max. 24 digits)		Conformity	Standards
	Call event queue	96	Security grade		3 (TP20-440 EN)
Protocols	203	Notified body	IMQ		
Telematic services	DDNS Tecnoalarm	✓			
	SNTP	✓			
	Mail Server Tecnoalarm	✓			
	TCS	✓			

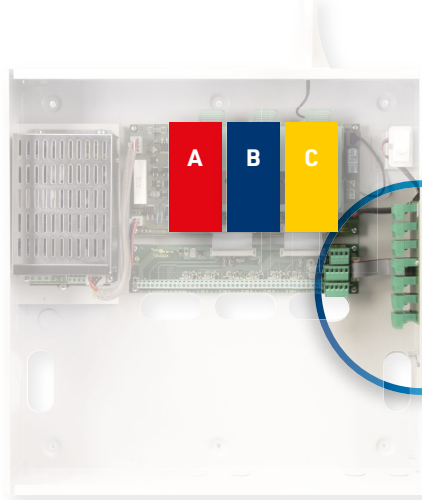
Internal expansions and interfaces

<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 - EN 50131-3 certification</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 - EN 50131-3 certification</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 - EN 50131-3 certification</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 with TCP/IP - Compatible with all GSM formats from 2G GPRS to 4G LTE - Manages the VoLTE service - EN 50131-3 certification</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>						

SOFTWARE PLUG-INS

<p>TECNO OUT</p>	<p>Tecno Out management software plug-in</p> <p>N.B. Function subject to Non-Disclosure Agreement. Indicate serial number of ontrol 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 may not exceed of 25 meters.



TP20-440

TP20-440

MODELS		EN 50131	PSTN	GSM-LTE	IP	ADVANCED PROGRAMMING	IP TECNO OUT	POWER SUPPLY	METAL BOX
Model	Item no.								
TP20-440	F101T440-UK		✓	Optional	Optional	✓	Optional	8A	✓
TP20-440 EN	F101T440EN-UK	Security grade 3	✓	Optional	Optional			8A	✓

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

* Optional communication formats that require the installation of specific interfaces

TP20-440 - Accessories

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

	GSM 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



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 network 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 bit 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.

VIDEOALARM

Synergy

Thanks to the Videoalarm range, Tecnoalarm redefines the traditional concepts of video surveillance extending the features of the Tecnoalarm burglar alarm systems to video control functions.

The integration of the two systems is complete and synergistic, with great benefits in terms of compactness, functionality and high-performance.



VIDEOALARM IP

The Videoalarm IP consoles, cameras and network recorders are connected via the Ethernet.

The UTS E console is compatible with the Tecnoalarm systems that are equipped with the ESP LAN interface. It manages and supervises the operation of the video surveillance devices and the connected alarm system.

GSM 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	External GSM mode	Connection	Serial Bus
System features	Communication parameters	Channels	Communication channels Protocols Emergency numbers Emergency message	Tecnoserver Remote Server C.ID Voice - Data - SMS	20 4 Voice and/or SMS
		Notification			
		Events			
Hardware	Vocabulary	On-board		Operating voltage Stand-by consumption Max. consumption Batteries	10V...15V DC 95mA @ 12V DC 200mA @ 12V DC 3x 1.2V (AA) - NiMH
	Battery	✓			
	USB port	USB type B			
Anti-tamper protection	Anti-opening/detachment	Micro-switch	Environmental class Protection class Casing Dimensions (L x H x D) Weight		
	Jam detector	✓			
Internal GSM mode	Connection	RS422		Internal GSM mode Communication channels Protocols Encryption Telematic services	Tecnoserver Remote Server Voice - Data - SMS 26 AES 128/256 bit TCS
	Connection interface	ESP GSM LINK			
	Communication channels	Tecnoserver			
		Remote Server			
		Voice - Data - SMS			
	Protocols	26			
Encryption	AES 128/256 bit				
Telematic services	TCS				



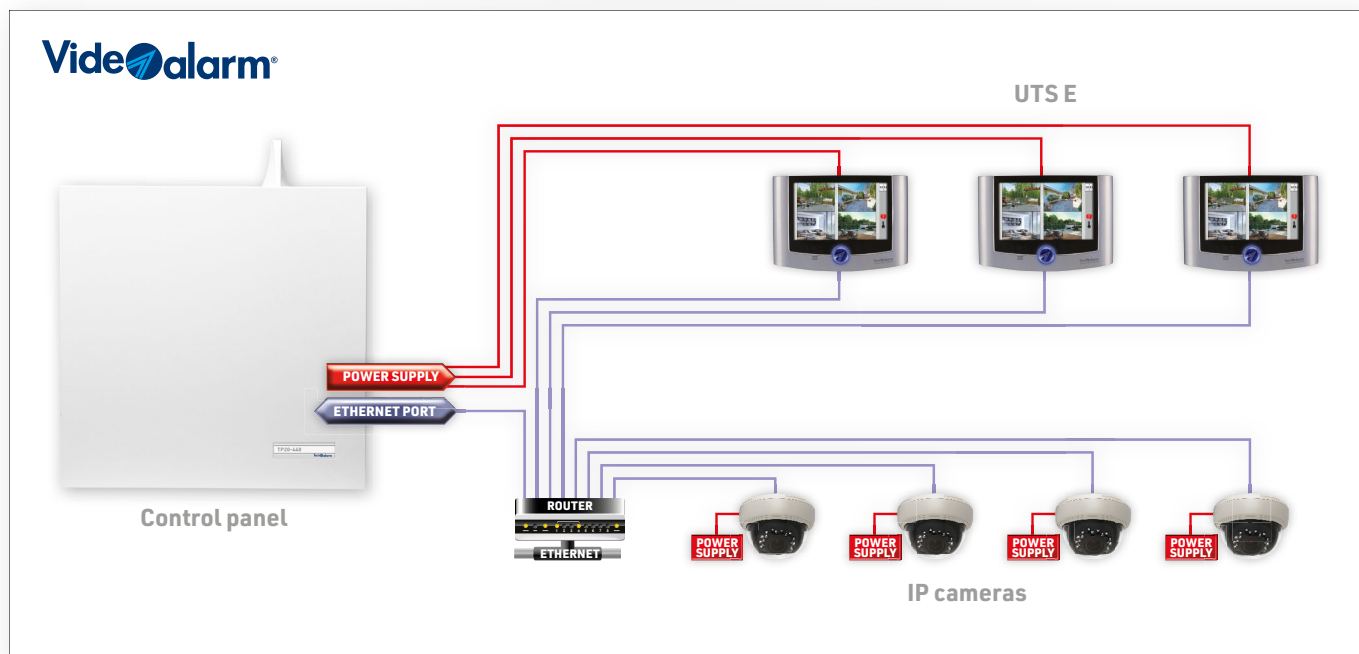
SYSTEM	EXTERNAL GSM MODE - SUPPORTED SERVICES									
	NOTIFICATIONS					TECNOMODEM		TECNOSERVER TCP/IP		
	Voice protocols	Tecnalarm protocols	Contact ID protocols	SMS	Emergency SMS	Call back	Keep online	Remonte management	Call back 4G	Keep online 4G
TP4/R	✓ (4MSG)	✓			✓	✓ (DTMF)	✓ (DTMF)			
TP6/R	✓ (4MSG)	✓			✓	✓ (DTMF)	✓ (DTMF)			
TP12/R	✓ (4MSG)	✓			✓	✓ (DTMF)	✓ (DTMF)			
TP14/R	✓ (4MSG)	✓			✓	✓ (DTMF)	✓ (DTMF)			
DIALOG 128	✓ (4MSG)	✓			✓	✓ (DTMF)	✓ (DTMF)			
TP8-64	✓ (wire S)	✓	✓	✓	✓	✓	✓	✓	✓	✓
TP8-64 BUS	✓ (wire S)	✓	✓	✓	✓	✓	✓	✓	✓	✓
TP16-256	✓ (wire S)	✓	✓	✓	✓	✓	✓	✓	✓	✓
TP4-20	✓ (4MSG)	✓	✓	✓	✓	✓	✓	✓	✓	✓
TP8-96 VIDEO	✓ (wire S)	✓	✓		✓	✓	✓	✓	✓	✓
TP8-28	✓ (wire S)	✓	✓	✓	✓	✓	✓	✓	✓	✓
TP8-28 GSM	✓ (wire S)	✓	✓	✓	✓	✓	✓	✓	✓	✓
TP10-42	✓ (wire S)	✓	✓	✓	✓	✓	✓	✓	✓	✓
TP8-88	✓ (wire S)	✓	✓	✓	✓	✓	✓	✓	✓	✓
TP20-440	✓ (wire S)	✓	✓	✓	✓	✓	✓	✓	✓	✓

SYSTEM	INTERNAL GSM MODE - SUPPORTED SERVICES										
	SERVICES	NOTIFICATIONS					TECNOSERVER TCP/IP				
	TCS	Voice protocols	Tecnalarm 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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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>
	<p>Item no. F127ESPGMLINK</p>

Touch screen video consoles



UTS E - Technical and functional specifications

General features	Type	UTS E
	Connection	IP
System features	UTS E consoles	Max. 3
	IP cameras	Max. 24
	Programs managed	Max.32
User interface	Screen	Color 7" TFT 800 x 480 pixel multi-point capacitive touch screen
	Infographics	Icons contextual to system status
	Voice synthesis	✓
CCTV camera management	Camera views	24
	Viewing mode	Single / Mosaic
	Viewing time	Programmable
	Recorded cameras	8 x (UTS E)
	Event association	Zone opening and zone alarm
	Programmable functions	Viewing and recording of clips
	Event recording	Clip di 30sec
Video standard	H264	

Floor plans management	Floor plans managed	Max. 32
	Icons per floor plan	Max. 32
	Cameras per floor plan	Max. 4
	Viewing mode	Manual/automatic
	Graphic interface	Programmable
Hardware	Memory	FLASH 1G Gbit RAM 1G Gbit
	USB port	USB port type A
	Slot SD card	✓
Anti-tamper protection	Anti-opening/detachment	Micro-switch
Electrical specifications	Operating voltage	10V...15V DC
	Stand-by consumption	250mA @ 12V DC
	Max. consumption	380mA @ 12V DC
Physical specifications	Environmental class	II
	Protection class	IP4x
	Casing	ASA
	Dimensions (L x H x D)	225 x 157 x 32mm
	Weight	800g

<h2 style="text-align: center;">UTS E</h2>									
	<p>Multifunctional touch screen video console integrating the management and programming of burglar alarm systems from Tecnoalarm and Videoalarm IP devices.</p> <p>The viewing of the surveillance cameras can be associated to the events of opening of a zone input and zone alarm. The live streams of the cameras can be viewed in sequence (full screen mode) or on mosaics (showing 4 live streams simultaneously), both automatically or manually.</p> <p>The console permits the viewing of up to 24 IP cameras and, if equipped with SD card, is able to record video clips of 30s length for 8 of them.</p> <p>The user interface is made of a TFT 7" capacitive colors touch screen, a voice synthesis function and an interactive and intuitive graphic interface with icons contextual to the system status.</p> <p>Flash memory - USB port - Management of 32 programs - Stylish design - Ultra-thin ASA casing - Surface and flush mounting - Exchangeable white cover plate</p>								
<p>The console is equipped with a software plug-in for the management of floor plans.</p>									

<h2 style="text-align: center;">UTS E POE</h2>						
	<p>IP POE (Power over Ethernet) connection for data transmission and power supply - UTP CAT 5 connection - RJ45 - Max. connection distance 80m</p> <p>Item no. F210UTSEPOE</p>					

<h2 style="text-align: center;">UTS E</h2>						
	<p>IP connection for data transmission - Separate power cord - UTP CAT 5 connection - RJ45 - Max. connection distance 80m</p> <p>Item no. F210UTSE</p>					

UTS E - Accessories

	<p>COVER PLATE</p> <p>Replacement cover plate for UTS E</p> <hr/> <p>Item no. F127UTSECGM (silver gray)</p> <p>Item no. F127UTSECG (titanium gray)</p>		<p>FLUSH MOUNTING BOX</p> <p>Box for flush or surface mounting of UTS E and UTS C on walls and gypsum plasterboard - Dimensions (L x H x D) 195 x 147 x 35mm</p> <hr/> <p>Item no. C210INCASSOUTS</p>
--	---	--	--



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. 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 CA								
	<p>As UTS C but with a software plug-in for the management and customization of floor plans and the creation of efficient and customized applications. Each floor plan manages up to 32 icons, which can be associated to devices of the alarm system or navigation functions. 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


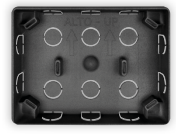
UTS C - Technical and functional specifications

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

SOFTWARE PLUG-INS

<h2>UTS FLOOR PLAN MANAGEMENT</h2>	Software plug-in for floor plan management N.B. Indicate serial number of console in order.	32 ICONS	32 FLOOR PLANS
	Item no. F127TSP7L/AV		

UTS C - Accessories

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






<h2 style="text-align: center;">UTS 4.3 PROX</h2>								
	<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 - EN 50131 (approved for use with certified systems)</p>							
<p>Item no. F127UTS43PROX (white)</p>		<p>Item no. F127UTS43PROXGR (charcoal gray)</p>						






Consoles and control units

UTS 4.3 PROX - Technical and functional specifications





General features	Type	UTS 4.3 PROX	Electrical specifications	Operating voltage	10V...15V DC
	RFID reader	Integrated		Stand-by consumption	80mA @ 12V DC
	Connection	RS485		Max. consumption	160mA @ 12V DC
User interface	Screen	Color 4.3" TFT	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 and anti-detachment	Micro-switch	<i>*Certified only if combined with approved systems</i>		

Consoles

<p>LCD300/S</p>				
	<p>Console with backlit 2x16 characters LCD, voice synthesis function (connection of S wire from the control panel required) and acoustic signaling device - Management of 15 programs - RS485 connection - Anti-tamper protection against opening and detachment - Stylish Pininfarina design - Antistatic ABS casing - Surface mounting - Dimensions (L x H x D) 120 x 175 x 46mm - White - EN 50131 (approved for use with certified systems)</p>			
<p>Item no. F127LCD300S (while stock last)</p>				

<p>LCDPROX1</p>				
	<p>Console with backlit graphic LCD and integrated RFID reader - Management of 8 programs - RS485 connection - Anti-tamper protection against opening and detachment - Stylish design - Antistatic ABS casing - Surface mounting - Dimensions (L x H x D) 150 x 119 x 35mm - White - EN 50131 (approved for use with certified systems)</p>			
<p>Item no. F127LCDPROX1</p>				

RFID reader interfaces

<p>TP SKN</p>			
	<p>Interface for connecting up to 4 RFID readers of the type ATPROX - RS485 connection - ABS casing - Surface mounting - Dimensions (L x H x D) 63 x 101 x 25mm - White - EN 50131 (approved for use with certified systems)</p>		
<p>Item no. F127TP-SKN</p>			

RFID readers

ATPROX	Approved for certified systems EN 50131			
---------------	--	--	--	--

RFID reader for indoor use with a user interface composed of 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 RFID reader interface of the type TP SKN - EN 50131 (approved for use with certified systems)

<table border="1"> <tr> <td data-bbox="108 649 359 985"> </td> <td data-bbox="359 649 793 985"> RFID reader module for Vimar Idea* switches - ABS casing - Black Item no. F103ATPROX/I </td> </tr> </table>		RFID reader module for Vimar Idea* switches - ABS casing - Black Item no. F103ATPROX/I	<table border="1"> <tr> <td data-bbox="793 649 1043 985"> </td> <td data-bbox="1043 649 1473 985"> RFID reader module for BTicino Living International* switches - ABS casing - Black Item no. F103ATPROX/LINT </td> </tr> </table>		RFID reader module for BTicino Living International* switches - ABS casing - Black Item no. F103ATPROX/LINT
	RFID reader module for Vimar Idea* switches - ABS casing - Black Item no. F103ATPROX/I				
	RFID reader module for BTicino Living International* switches - ABS casing - Black Item no. F103ATPROX/LINT				

<table border="1"> <tr> <td data-bbox="108 1012 359 1348"> </td> <td data-bbox="359 1012 793 1348"> RFID reader module for BTicino Magic* switches - ABS casing - Black Item no. F103ATPROX/MN </td> </tr> </table>		RFID reader module for BTicino Magic* switches - ABS casing - Black Item no. F103ATPROX/MN	<table border="1"> <tr> <td data-bbox="793 1012 1043 1348"> </td> <td data-bbox="1043 1012 1473 1348"> RFID reader module for BTicino Living* switches - ABS casing - Black Item no. F103ATPROX/L </td> </tr> </table>		RFID reader module for BTicino Living* switches - ABS casing - Black Item no. F103ATPROX/L
	RFID reader module for BTicino Magic* switches - ABS casing - Black Item no. F103ATPROX/MN				
	RFID reader module for BTicino Living* switches - ABS casing - Black Item no. F103ATPROX/L				

<table border="1"> <tr> <td data-bbox="108 1373 359 1709"> </td> <td data-bbox="359 1373 793 1709"> RFID reader module for BTicino Living International* switches - ABS casing - White Item no. F103ATPROX/LINB </td> </tr> </table>		RFID reader module for BTicino Living International* switches - ABS casing - White Item no. F103ATPROX/LINB	<table border="1"> <tr> <td data-bbox="793 1373 1043 1709"> </td> <td data-bbox="1043 1373 1473 1709"> RFID reader module for BTicino Magic* switches - ABS casing - White Item no. F103ATPROX/M </td> </tr> </table>		RFID reader module for BTicino Magic* switches - ABS casing - White Item no. F103ATPROX/M
	RFID reader module for BTicino Living International* switches - ABS casing - White Item no. F103ATPROX/LINB				
	RFID reader module for BTicino Magic* switches - ABS casing - White Item no. F103ATPROX/M				

<table border="1"> <tr> <td data-bbox="108 1733 359 2069"> </td> <td data-bbox="359 1733 793 2069"> RFID reader module for BTicino Axolute* switches - ABS casing - White Item no. F103ATPROX/A </td> </tr> </table>		RFID reader module for BTicino Axolute* switches - ABS casing - White Item no. F103ATPROX/A	<table border="1"> <tr> <td data-bbox="793 1733 1043 2069"> </td> <td data-bbox="1043 1733 1473 2069"> RFID reader module for BTicino Living Now* switches - ABS casing - Item no. F103ATPROX/LNOB (white) Item no. F103ATPROX/LNOW (black) </td> </tr> </table>		RFID reader module for BTicino Living Now* switches - ABS casing - Item no. F103ATPROX/LNOB (white) Item no. F103ATPROX/LNOW (black)
	RFID reader module for BTicino Axolute* switches - ABS casing - White Item no. F103ATPROX/A				
	RFID reader module for BTicino Living Now* switches - ABS casing - Item no. F103ATPROX/LNOB (white) Item no. F103ATPROX/LNOW (black)				

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

Access Point Readers

APR CARD N



RFID card reader with a user interface composed of status LED and a buzzer -
Management of 3 programs - RS485 connection -
Anti-tamper protection against opening and detachment - Stylish Pininfarina design -
ABS casing - Surface mounting - Dimensions (L x H x D) 91 x 138 x 54mm

Item no. F103APRCARDGN (charcoal gray)

Item no. F103APRCARDNN (black)

Item no. F103APRCARDBN (white)

APR FINGER N



Biometric finger print reader with a user interface composed of status LED and a buzzer -
Storage of 96 encrypted finger prints - Management of 3 programs - RS485 connection -
Anti-tamper protection against opening and detachment - Stylish Pininfarina design -
ABS casing - Surface mounting - Dimensions (L x H x D) 91 x 138 x 54mm

Item no. F103APRFINGN (charcoal gray)

Item no. F103APRFINNN (black)

Item no. F103APRFINBN (white)

APR FINGER-CARD N



Biometric finger print and RFID card reader with a user interface composed of status LED
and a buzzer - 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 against opening and detachment - Stylish Pininfarina design -
ABS casing - Surface mounting - Dimensions (L x H x D) 91 x 138 x 54mm

Item no. F103APRFINCARGN (charcoal gray)

Item no. F103APRFINCARNN (black)

Item no. F103APRFINCARBN (white)

APR - Accessories

APR COVER

Cover for Access Point Readers (APR)
protecting against falling droplets -
ASA + PC -
Dimensions (L x H x D) 115 x 165 x 127mm

Item no. F103APRPROT/G (charcoal gray)

Item no. F103APRPROT/N (black)



Item no. F103APRPROT/B (white)

APR USB CABLE





Type A mini USB cable for finger print
programming using a PC

Item no. F130CAVOMINIUSB









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
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	 Approved for certified systems EN 50131
	Transponder compatible with ATPROX readers - Code can be reprogrammed or duplicated with PROX PROGRAMMER - ABS casing - Gray
	Item no. F103PROXKEY
PROXKEY HS	 Approved for certified systems EN 50131
	High-security transponder compatible with ATPROX readers - Unique non-duplicable nor reprogrammable code - ABS casing - Blue
	Item no. 103PROXKEYHS

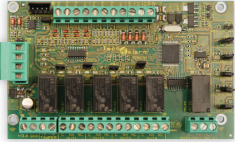
Outdoor keypads


DIGITEX	 Approved for certified systems EN 50131	 CODES	 4 PROGRAMS MANAGED	 CAPACITIVE TOUCH	 VANDAL PROOF	 CLASS IV GENERAL OUTDOOR	 IP65
	<p>Outdoor keypad with touch-sensitive steal 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 - EN 50131 (approved for use with certified systems)</p>						
Item no. F103DIGITEX							

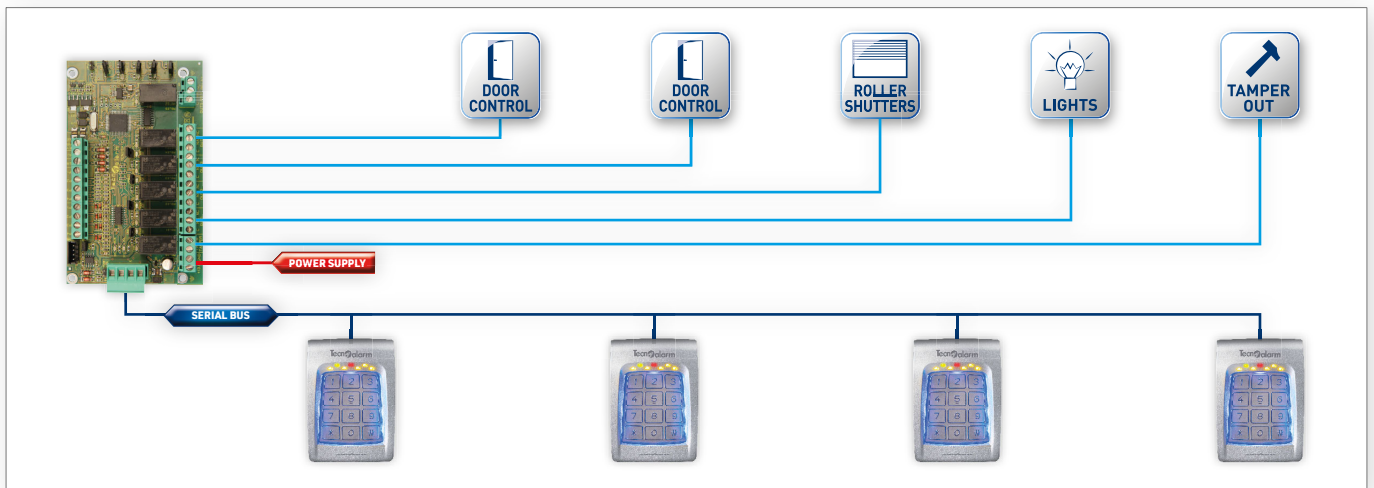
DIGITEX - Technical and functional specifications

General features	Type	DIGITEX	Anti-tamper protection	Anti-opening and anti-detachment	Magnetic - reed switch
	Address programming	Digital		Anti-magnete	Magnetic - reed switch
	Connection	RS485			
User interface	Keypad	Touch-sensitive steal membrane	Physical specifications	Connection cable	6m pre-wired
	Optical system status signaling	7 LED		Environmental class	IV
	Acoustic system status 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	Rated voltage	12V DC	Conformity	Standards	EN 50131-1* EN 50131-3*
	Operating voltage	10V...15V DC		Notified body	IMQ
	Stand-by consumption	10mA @ 12V DC			
	Max. consumption	136mA @ 12V DC			
Mechanical protection	Casing	Vandal-proof	*Certified only if combined with approved 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 management 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 touch-sensitive steal 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 Casing - Dimensions (L x H x D) 165 x 110 x 41mm - ABS - White Item no. C110C90</p>
--	---



Expansion modules

Inputs - Outputs - Serial bus

The versatile and modular structure can be considered an intrinsic characteristic of the Tecnoalarm systems, characteristic which the range of input, output and serial bus expansions fully meet.

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.



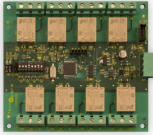



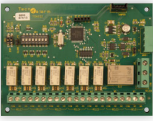








Input expansions

SPEED ALM8 PL								
	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								
	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								
	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								
	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								
	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								


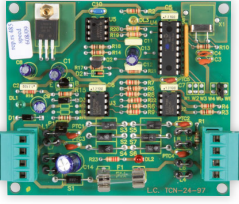


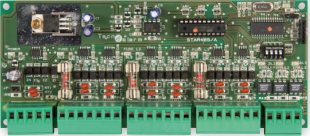
INPUT EXPANSIONS - Accessories

	C100P Casing - Design by Pininfarina - Dimensions (L x H x D) 270 x 156 x 68mm - ABS - White Item no. C110C100P		C90 Casing - Dimensions (L x H x D) 165 x 110 x 41mm - ABS - White Item no. C110C90
			C80 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 x D) 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 x D) 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 x D) 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</p> <p>Item no. F127SINOTTICON</p>	

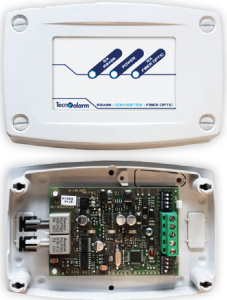
Serial extension modules

<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 1km track length - Programmable baud rate - Dimensions (L x H) 97 x 85mm N.B. Compatible C90 casing is optional</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>			

Expansion modules

SPEED RS485 - Accessories

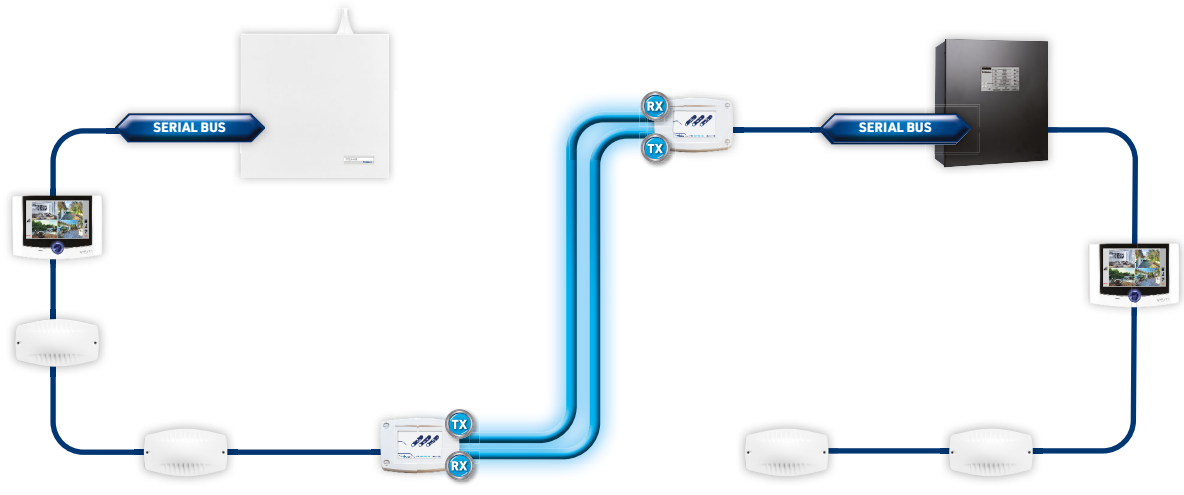
	<p>C90</p> <p>Casing - Dimensions (L x H x D) 165 x 110 x 41mm - ABS - White</p> <p>Item no. C110C90</p>
--	---

CONVERTER		RS485 FIBER-OPTIC CONVERTER	POINT TO POINT CONNECTION 2KM	LOOP CONNECTION 4KM
	<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				

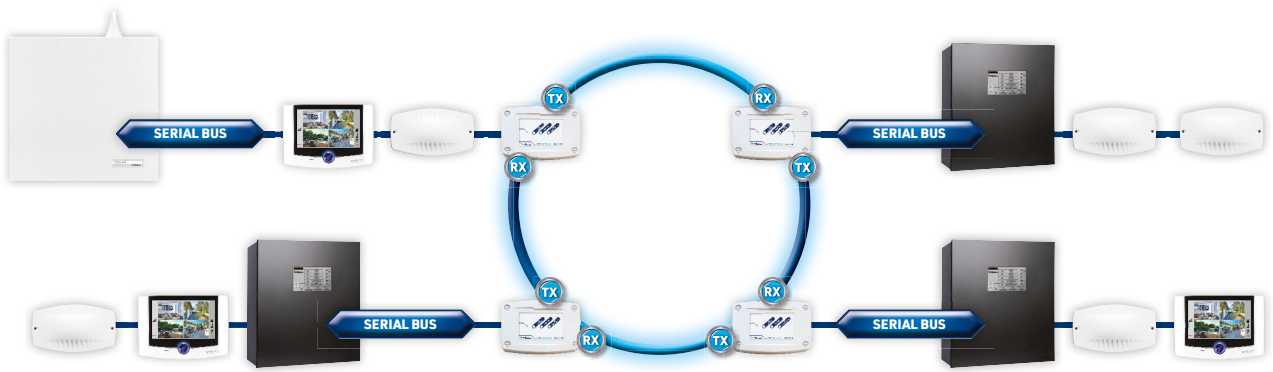
CONVERTER - Technical and functional specifications

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

Point-to-point connection



Loop connection








RSC[®]
products



INDOOR

Input expansions

SPEED 4-8 P3A			8 ZONES	SENSOR BUS	SIREN BUS	4 OUTPUTS	3A POWER SUPPLY	SECURITY GRADE 3	CLASS II GENERAL INDOOR	METAL BOX
	<p>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)</p>									
Item no. F101SPEED48P3A										




SPEED 4-8 P3A - Technical and functional specifications




General features	Input expansion module with integrated PS main power supply	Type A	Batteries (Storage Device)	Capacity	12V/12Ah
	Connection	13.8V DC - 3A		Battery test	Automatic
Zones	Total logic zones	8		Charging time	80% ca. 15h (1 battery of 12Ah)
	Zones managed	4 conventional 8 Sensor Bus		Low battery threshold	10.8V DC
System equipment	Serial buses	Serial Bus Sensor Bus Siren Bus		Physical specifications	Environmental class
	Outputs	4 programmable	Protection class		IP3x
Electrical output specifications	Output voltage	3	Casing		Metal
	Max. ripple	12.5V...13.8V DC	Dimensions (L x H x D)		315 x 260 x 108mm
	Ripple (max. carico)	≤80mVpp	Weight		3.2kg
	Battery recharge current	800mA	Autonomy Security grade	Grade 2	12h (1Ah*)
	Current available for loads	Max. 2.1A		Grade 3	60h (0.2Ah*)
	Overvoltage protection	>16V DC ±10%		Grade 3 remotely controlled	30h (0.4Ah*)
Overcharge signal	1 LED per output	Conformity	Standard	EN 50131-6	
Anti-tamper protection	Anti-opening/detachment		Micro-switch	Notified body	IMQ
Electrical specifications	Power supply	14.4V DC - 3A switching	<i>The security grade depending current and autonomy * Available current for loads in case of power failure</i>		
	Operating voltage	230V AC +10/-15% 50Hz			
	CPU consumption	100mA @ 13.8V DC			
	Max. consumption	450mA AC			

SPEED ALM8 PLUS		8 ZONES	SENSOR BUS	SIREN BUS	4 OUTPUTS	1.8A POWER SUPPLY	CLASS II GENERAL INDOOR	ABS BOX
	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 - 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	Input expansion module with integrated power supply	13.8V DC - 1.8A	Electrical specifications	Power supply	14.4V DC - 1.8A switching
	Connection	Serial Bus		Operating voltage	230V AC +10/-15% 50Hz
Zones	Total logic zones	8		Consumption CPU	80mA @ 13.8V DC
	Zones managed	8 Sensor Bus		Max. consumption	200mA AC
System equipment	Serial buses	Serial Bus Sensor Bus Siren Bus	Batteries (Storage Device)	Capacity	12V-7Ah
	Outputs	4 programmable		Low battery threshold	10.8V DC
Electrical output specifications	Power supply outputs	3		Cut-off voltage	<8.8V DC
	Output voltage	12.5V...13.8V DC	Physical specifications	Environmental class	II
	Max. ripple	≤90mVpp		Protection class	IP3x
	Battery recharge current	280mA		Casing	ABS
	Current available for loads	Max. 1.4A		Dimensions (L x H x D)	350 x 285 x 93mm
Overvoltage protection	>16V DC ±10%	Weight	2.35kg		
Anti-tamper protection	Anti-opening/detachment	Micro-switch			

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













Power supplies

TAPS-8 BUS								
	<p>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)</p>							
Item no. F107TAPS-8BUS								

TAPS-8 BUS - Technical and functional specifications

General features	Power supply	Type A	Batteries (Storage Device)	Capacity	2x 12V/17Ah
	Connection	8A/13.8V DC		Battery test	Automatic/manual
System equipment	Serial buses	Serial Bus	Charging time	80% ca. 19h	
	Outputs	Siren Bus	Low battery threshold	(2 batteries of 17Ah)	
Electrical output specifications	Power supply outputs	4 programmable	Cut-off voltage	10.8V DC	
	Output voltage	6	Environmental class	<8.8V DC	
	Max. ripple	12.5V...13.8V DC	Protection class	II	
	Battery recharge current	≤50mVpp	Casing	IP3X	
	Current available for loads	850mA per battery	Dimensions (L x H x D)	Metal	
	Overvoltage protection	Max. 5.5A	Weight	320 x 365 x 170mm	
	Overcharge signal	>16V DC ±10%	Autonomy Security grade	5.8kg	
Anti-tamper protection	Anti-opening/detachment	1 LED per output	Grade 2	12h (2.83Ah*)	
		Micro-switch	Grade 3	60h (0.56Ah*)	
Electrical specifications	Power supply	8A/14.4V DC switching Fly-back	Grade 3 remotely controlled	30h (1.12Ah*)	
	Operating voltage	230V AC	Conformity	EN 50131-6	
	Max. consumption	+10/-15% 50Hz	Notified body	IMQ	
		600mA AC	<p><i>The security grade depending current and autonomy</i> * Available current for loads in case of power failure</p>		

Dual technology for indoor use

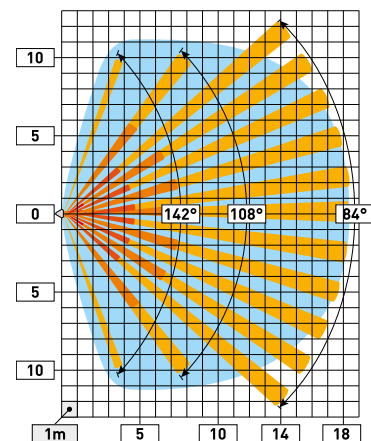
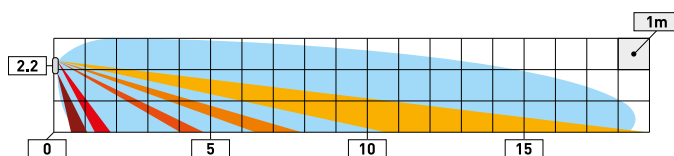
TWINTEC BUS									
	Dual technology detector - Volumetric protection: 29 infrared beams, 4 levels, 108° coverage, 18m maximum range - Programmable detection logic - RDV® function - Integrated RSC® technology: remote programming and management - Self test and automatic temperature compensation - Anti-tamper protection: anti-opening/antidetachment - Environmental class II (indoor general) - ABS casing - Design by Pininfarina - White - EN 50131-2-4 certification								
	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	Functions	RDV®	Programmable
	Connection	Sensor Bus		Self test	Automatic
Detection features	IR elements	Dual elements	Electrical specifications	Operating voltage	9V...15V DC
	Infrared beams	29		Stand-by consumption	17mA @ 12V DC
	Infrared beams levels	4		Max. consumption	28mA @ 12V DC
	IR programming	Pulse count	Physical specifications	Environmental class	II
	Temperature compensation	Automatic		Protection class	IP4x-IK04
	Microwave frequency	10.525GHz*		Casing	ABS
	Microwave programming	Sensitivity Delay Range		Dimensions (L x H x D)	68 x 118 x 51mm
	Coverage	108°, range 18m		Weight	160g
	Detection logic	AND AND + WALK	Conformity	Standards	EN 50131-2-4
Detection block	Programmable	Security grade		2	
Anti-tamper protection	Anti-opening/detachment	Notified body		IMQ	

* Also available with the frequencies 9.9GHz and 9.35GHz

Coverage diagrams
(TWINTEC BUS - TWINTEC MASK BUS)





TWINTec MASK BUS										
	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 50131-2-4 certification - Lens with pet-immunity available									
	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	Sensor Bus
Detection features	IR elements	Dual elements
	Infrared beams	29
	Infrared beams levels	4
	IR programming	Pulse count
	Temperature compensation	Automatic
	Microwave frequency	10,525GHz*
	Microwave programming	Sensitivity Delay Range
	Coverage	108°, range 18m
	Detection logics	3 modes: OR - AND AND + WALK
Detection block	Programmable	
Anti-tamper protection	Anti-opening/detachment	Micro-switch
	Antimasking	Programmable

Functions	RDV®	Programmable
	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-IK04
	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 - Approved for certified detectors
Item no. F102SNODO2000	

Passive infrared for indoor use

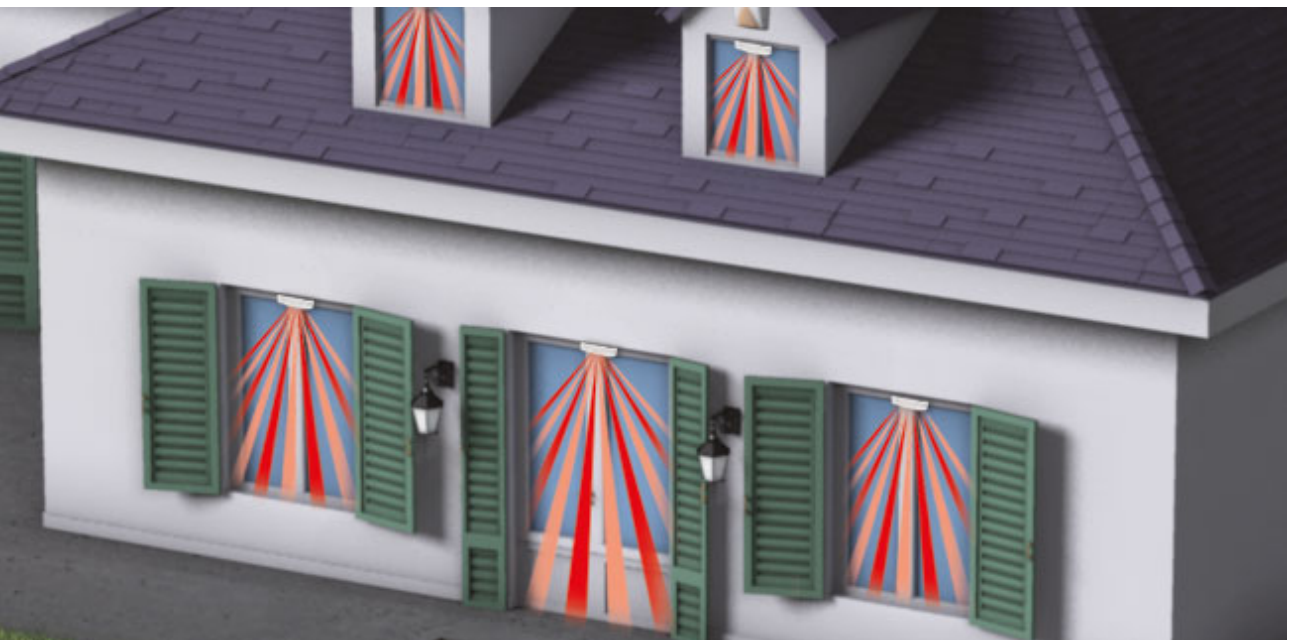
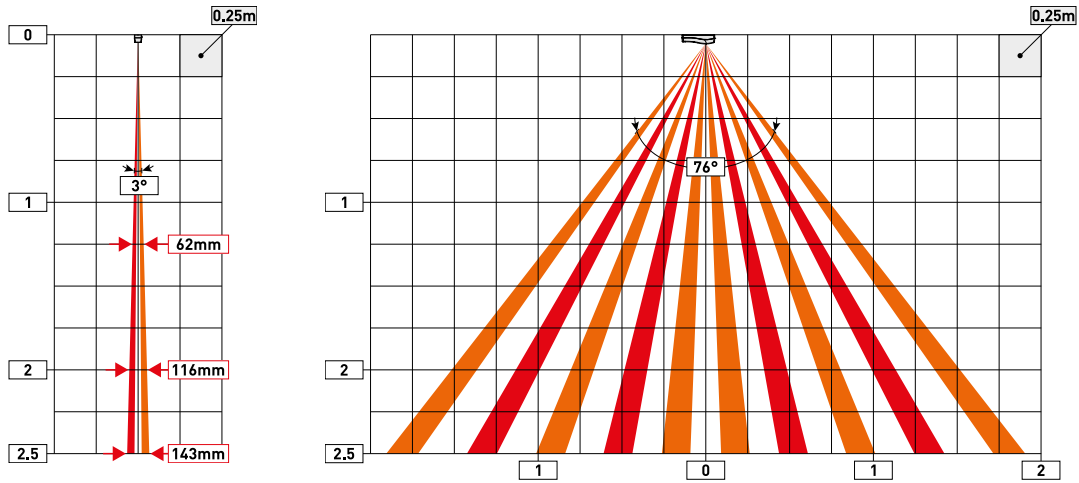
DUALRED BUS	ID1 2 IR AND LOGIC	ID2 REED OR CONTACT	COVERAGE 2.5m H76° V3°	ANTI-MASK	SELF TEST	TEMPERATURE COMPENSATION	CLASS II GENERAL INDOOR
	<p>Detector for protection of openings, windows and doors - 2 independent detection units (dual ID): dual PIR element (ID1), internal contact and/or input for 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	Functioning mode	Combined (AND/OR detection logic)	Occupies 1 zone
	Zones occupied	2 (ID1 + ID2)		2 Zones ID1 and ID2	Independents
	Connection	Sensor Bus			
Detection features ID1 IR	IR elements	2 dual elements	Anti-tamper protection	Anti-opening/detachment	Micro-switch
	Infrared beams	10		Antimasking	Programmable
	Infrared beams levels	2	Functions	Self test	Automatic
	Coverage	H76°, V3°, 2.5m range	Electrical specifications	Operating voltage	10V...14.5V DC
	Settings	Pulse count Range Sensitivity Sense of beam crossing		Stand-by consumption	20mA @ 12V DC
	Temperature compensation	Automatic		Max. consumption	25mA @ 12V DC
	Detection block	Programmable		Physical specifications	Environmental class
Detection features ID2 Contact	Reed	Excludable	Protection class		IP4x-1K04
	External contact input	Magnetic contact Pulse count Vibration detector	Casing		ASA
	Input filter	Programmable	Dimensions (L x H x D)		168 x 30 x 46mm
	Self exclusion	Programmable	Weight	132g	

INDOOR

Coverage diagrams



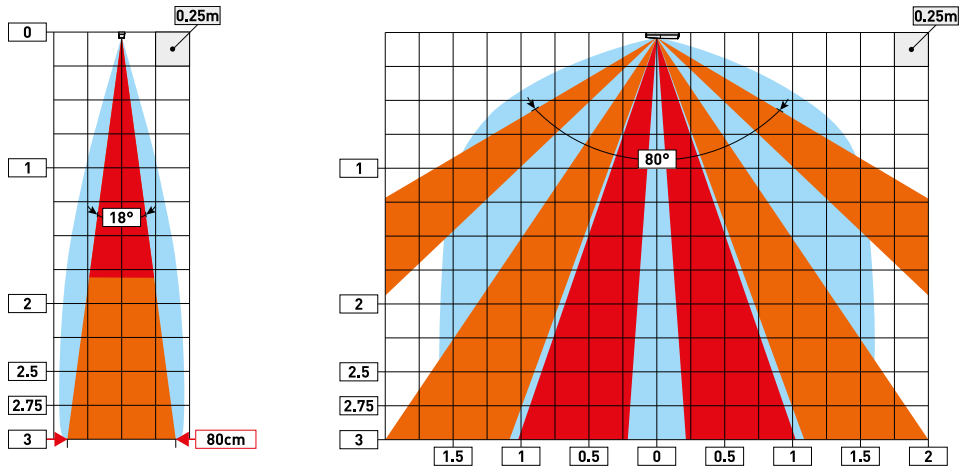
Dual technology for indoor use

REDWAVE BUS	ID1 IR + MW AND LOGIC	ID2 CONTACT	COVERAGE 3m H80° V18°	SELF TEST	TEMPERATURE COMPENSATION	CLASS II GENERAL INDOOR
	<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)					












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/rope contact, vibration detector
	Connection	Sensor Bus		Filter	Programmable
Detection features ID1 - IR	Infrared detector	Dual PIR element	Anti-tamper protection	Anti-opening/antidetachment	Micro-switch
	Infrared beams	6	Functions	RDV®	Programmable
	Levels	1		Self test	Automatic
	Microwave frequency	24GHz	Electrical specifications	Operating voltage	10V...14.5V DC
	Coverage	H 80°, V 18°, 3m range		Stand-by consumption	20mA @ 12V DC
	Detection logic	AND WALK AND + RDV®		Max. consumption	25mA @ 12V DC
	Settings	Pulse count Delay Sensitivity open gate mode	Physical specifications	Environmental class	II
	Temperature compensation	Automatic		Protection class	IP4x-IK04
Inhibition of detection	Programmable	Casing		ASA	
		Dimensions (L x H x D)		180 x 33 x 32mm	
			Weight	140g	

Coverage diagrams



Dual technology for outdoor use

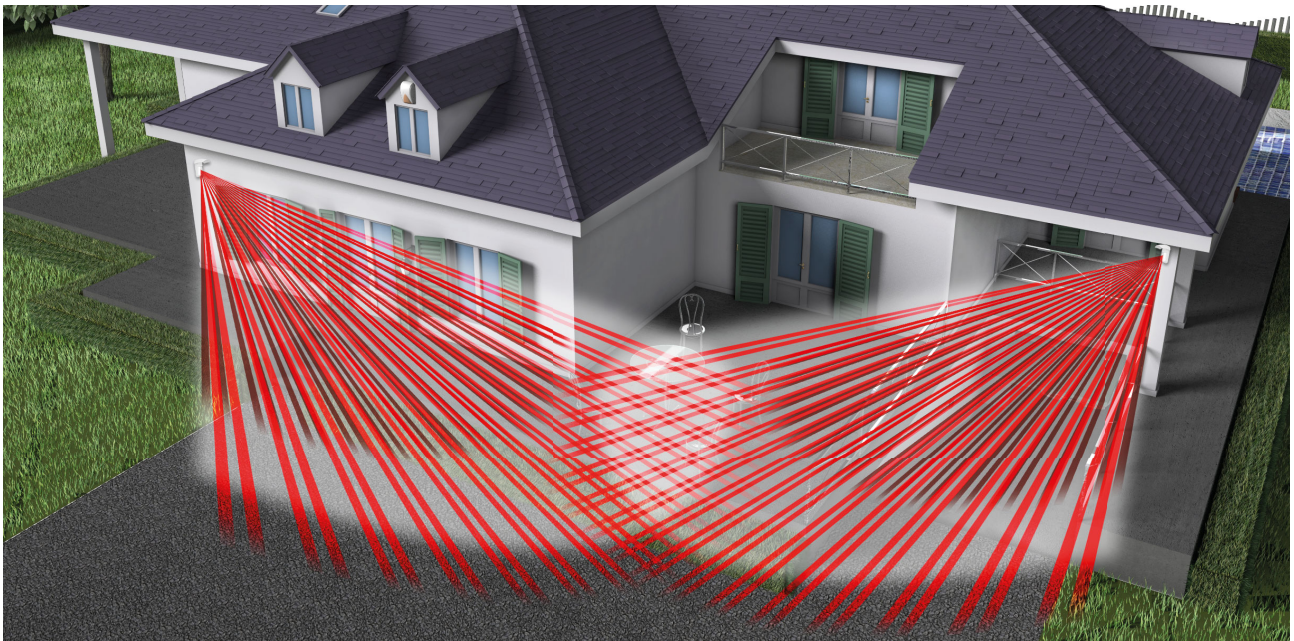
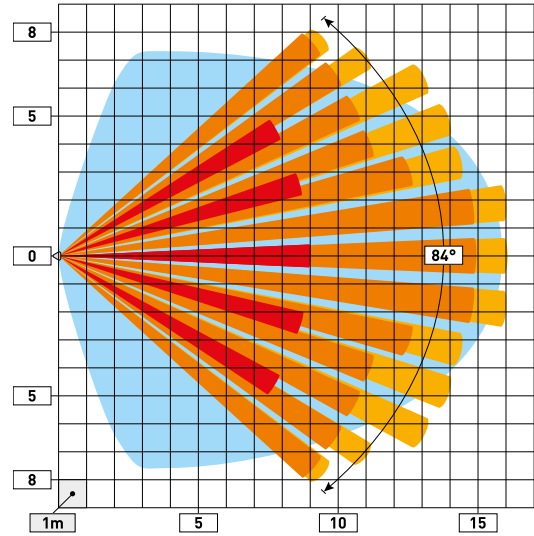
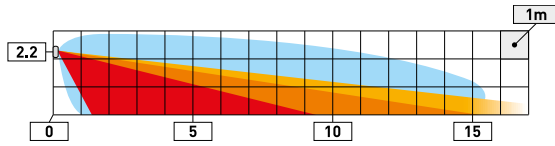
GLOBAL SPACE BUS	 EN 50131	 RDV	 3IR+MW AND LOGIC	 COVERAGE 15m 84°	 ANTI-MASK	 SELF TEST	 TEMPERATURE COMPENSATION	 SECURITY GRADE 3	 CLASS III SHELTERED OUTDOOR	 IP44
	<p>Infrared and microwave detector for protection of sheltered outdoor areas close to the building, gardens and terraces - High-density 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>										

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	IR elements	3 dual elements	Electrical specifications	Operating voltage	10V...14.5V DC
	Infrared beams	43		Stand-by consumption	20mA @ 12V DC
	Infrared beams levels	5		Max. consumption	28mA @ 12V DC
	Coverage setting	Shutter		Physical specifications	Environmental class
	IR settings	Pulse count Sensitivity	Protection class		IP44-1K04
	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 Excludable	Weight		240g
	Coverage	84°, range 15m	Conformity		Standards
	Detection logics	6 modes: AND - OR AND + RDV®		Security grade	3
Detection block	Programmable	Notified body		IMQ	
Functions	RDV®	Programmable	<p>* Also available with the frequencies 9.9GHz and 9.35GHz</p>		
	Self test	Automatic			



Coverage diagrams




RSC® - Remote Sensitivity Control

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°, V ±10° orientation - Surface mounting - Anti-tamper protection: antidetachment</p> <hr/> <p>Item no. F102SNODOGLOB</p>		

Passive infrared for outdoor use

TRIRED BUS	3 IR AND LOGIC	COVERAGE 30m H5,7° V3,6°	ANTI-MASK	SELF TEST	TEMPERATURE COMPENSATION	CLASS III SHELTERED OUTDOOR	IP55
	<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							

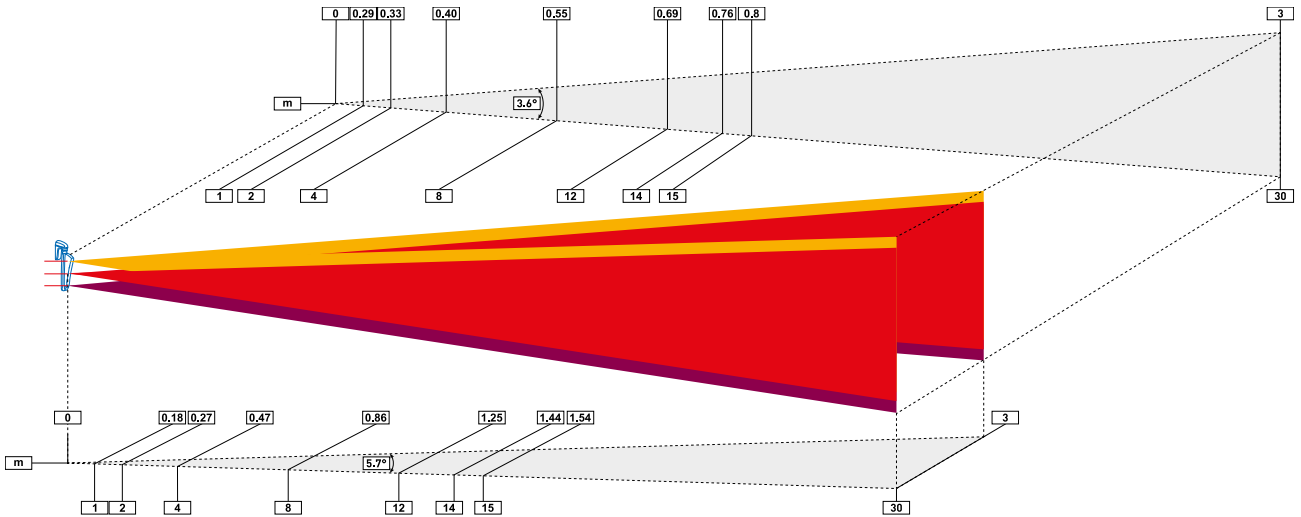
RSC® - Remote Sensitivity Control

TRIRED BUS - Technical and functional specifications

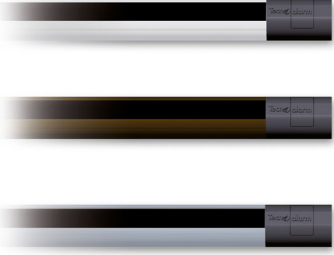
General features	Type	TRIRED BUS	Anti-tamper protection	Anti-opening/detachment	Micro-switch
	Connection	Sensor Bus		Antimasking	Programmable
Detection features	IR elements	3 dual elements	Functions	Self test	Automatic
	Infrared beams	3	Electrical specifications	Operating voltage	10V...14.5V DC
	Infrared beams levels	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	5.7°, range 30m		Protection class	IP55-IPK04
	Detection logics	8 modes: AND		Casing	ASA
	Inhibition of detection	Programmable		Dimensions (L x H x D)	82 x 400 x 260mm
Orientation	180° (± 90°) horiz. 20° (± 10°) vert.	Weight		1.2kg	



Coverage diagrams



Active infrared for outdoor use

WINBEAM/S DOORBEAM/S	TX + RX	SYNC MODE	ALUMINUM BOX	RANGE 16m	CLASS III SHELTERED OUTDOOR	IP52
	<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

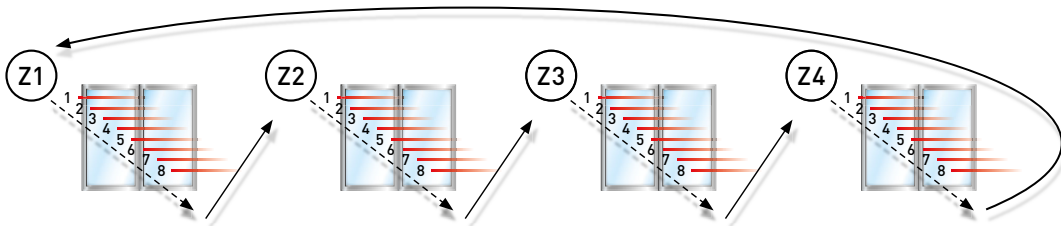
General features	Type	WINBEAM/S DOORBEAM/S
	Connection	Zone Bus
Detection features	Beam power	4 options
	Response time	2 settings
	Detection logic	4 options
	Beams	Singularly excludable
	Beam numbering	Reversible
	Range	4...16m
	WINBEAM/S 60	2 beams
	WINBEAM/S 80	3 beams
	WINBEAM/S 105	4 beams
	WINBEAM/S 130	5 beams
	DOORBEAM/S 155	6 beams
	DOORBEAM/S 180	7 beams
	DOORBEAM/S 205	8 beams
	Synchronization	Digital automatic
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	25 x H x 19mm (for H see table)
	Pre-wired cable	6m



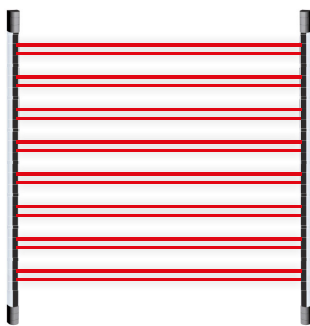
MODELS	ITEM NO. BROWN	ITEM NO. WHITE	ITEM NO. SILVER GRAY	HEIGHT	BEAMS
WINBEAM/S 60	F102WINBS60	F102WINBS60BI	F102WINBS60GR	60cm	2
WINBEAM/S 60T	F102WBS60T	F102WBS60BIT	F102WBS60GRT	61...79cm	2
WINBEAM/S 80	F102WINBS80	F102WINBS80BI	F102WINBS80GR	80cm	3
WINBEAM/S 80T	F102WBS80T	F102WBS80BIT	F102WBS80GRT	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 inputs which are compatible with the Zone Bus contact type (compatible modules ESP4-20, ESP 4IN, SPEED 4, SPEED 4-140C, SPEED 8, SPEED ALM8 PL, SPEED 4 PLUS, SPEED 4-8 P3A).

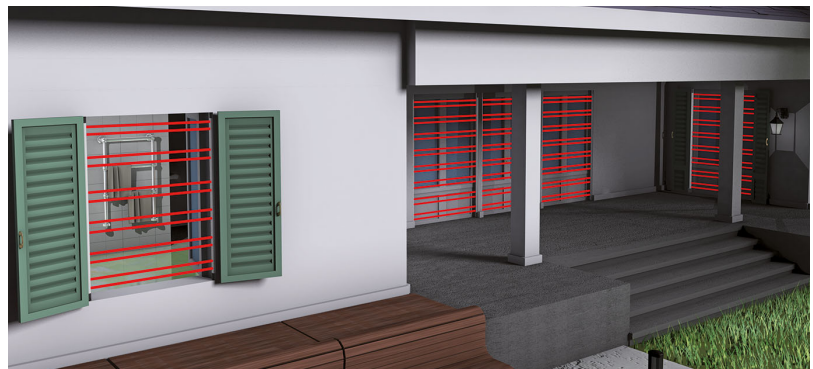
Synchronization



Configuration



Barrier configuration



WINBEAM/S - DOORBEAM/S - Accessories

	20M EXTENSION CABLE
	20m extension cable - Custom made
	Item no. F102CAV020

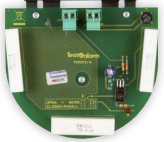

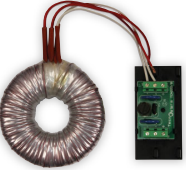





BEAMTOWER		RANGE 150m	SYNC MODE	CLASS IV GENERAL OUTDOOR	IP45
	Infrared barrier for perimeter protection of large outdoor areas - Great installation versatility to create barrier as well as open and closed perimeter configurations - 150m maximum range - Programmable detection logic - Integrated RSC® 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	Max. consumption Electrical specifications Physical specifications Dimensions (L x H x D)	BEAMTOWER/4	RX 165mA @ 13V DC TX 197mA @ 13V DC
	Connection	Sensor Bus		BEAMTOWER/6	RX 180mA @ 13V DC TX 243mA @ 13V DC
Detection features	Beam power	5 levels		BEAMTOWER/8	RX 196mA @ 13V DC TX 288mA @ 13V DC
	Antimasking time	Programmable		BEAMTOWER/8 3M	RX 196mA @ 13V DC TX 288mA @ 13V DC
	Detection logic	16 settings		Heater (2 pcs)	770mA @ 28V AC
	Disqualification	Programmable		Operating voltage	10.5V...14.5V DC
	Coverage	Range 150m		AC Power supply	28V AC
	BEAMTOWER/4	4 beams		Battery	12V/7Ah
	BEAMTOWER/6	6 beams		Environmental class	IV
	BEAMTOWER/8	8 beams		Protection class	IP45 (retrofitable)
BEAMTOWER/8 3M	8 beams	Contentitore	Al + PC		
Orientation	180° (± 90°) horiz. 20° (± 10°) vert.	BEAMTOWER/4	153 x 1425 x 178mm		
Synchronization	Digital automatic	BEAMTOWER/6	153 x 1970 x 178mm		
Installation configurations	Barrier	1 mode	BEAMTOWER/8	153 x 2515 x 178mm	
	Closed perimeter	3 modes	BEAMTOWER/8 3M	153 x 3060 x 178mm	
	Open perimeter	6 modes	Fastening base	400 x 23 x 400mm	
Anti-tamper protection	Anti-opening	Micro-switch			
	Anti-climb-over	Micro-switch			



BEAMTOWER - Accessories

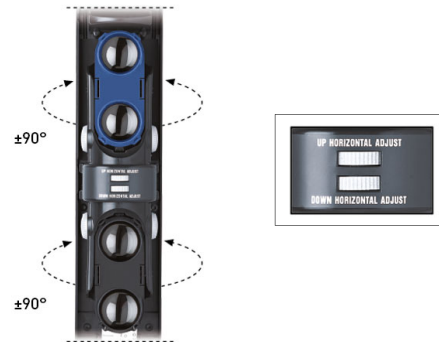
	<p>HEATER</p> <p>Thermostatic heater module for BEAMTOWER</p> <p>Item no. F102BERISC</p>		<p>TA16/2 TRANSFORMER KIT</p> <p>220/28V AC 60VA transformer kit for BEAMTOWER and heater modules</p> <p>Item no. C126TRASTA16/2</p>
	<p>TA/BT TRANSFORMER KIT</p> <p>220/28V AC 150VA transformer kit for BEAMTOWER 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>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>

RSC® - Remote Sensitivity Control



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.



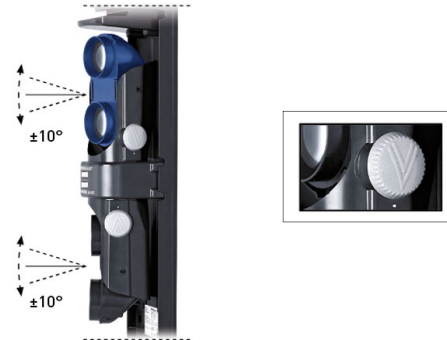
Orientation

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 module

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.

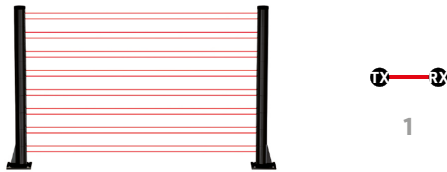


Controller

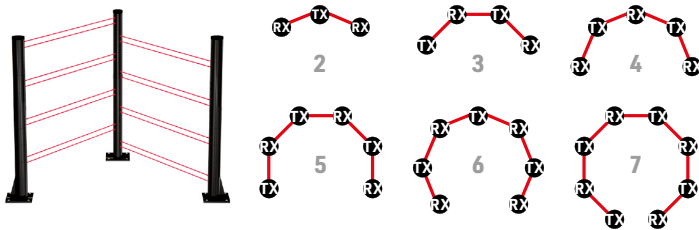
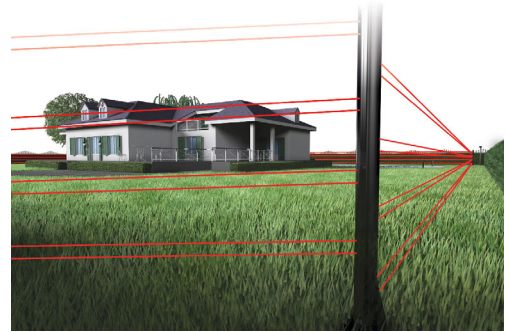
The controller is the centerpiece of the column and all its electronic components are connected to it. The controller of the receiver column is connected to the control panel or the input module and, for synchronization, to the corresponding controller of the transmitter column. The connections between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

OUTDOOR

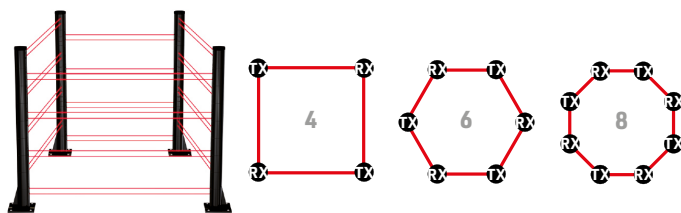
Configurations



Barrier configuration




Open perimeter configuration



Closed perimeter configuration



Microwave for outdoor use

EXPLORER BUS		TX + RX	4 CHANNELS	CLASS IV GENERAL OUTDOOR	IP65
	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)				
	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					

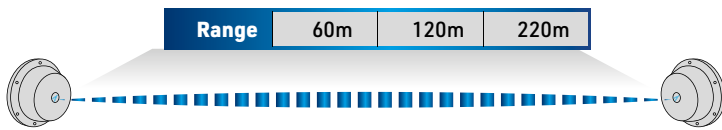
EXPLORER BUS - Technical and functional specifications

General features	Type	EXPLORER BUS	Anti-tamper protection	Anti-opening	Micro-switch
	Connection	Sensor Bus		Anti-twist	Mechanical
Detection features	EXPLORER BUS 600	Range 60m	AC power supply	Rated voltage	18V AC
	EXPLORER BUS 1200	Range 120m		Max. consumption	360mA @ 18V AC
	EXPLORER BUS 2200	Range 220m	DC power supply	Operating voltage	9V...15V DC
	Microwave frequency	10.525GHz		Max. consumption	160mA @ 13.8V DC
Transmission power	≤500mW	Battery		12V/2Ah	
Programming	Response time	5 settings	Consumption batterie recharge	Max. 240mA	
	Sensitivity	5 settings	Physical specifications	Environmental class	IV
	Transmission channel	Programmable		Protection class	IP65
	Failure signaling	Excludible		Casing	Al + ABS
	Supervision	Excludible		Dimensions (L x H x D)	310 x 310 x 239.5mm
	Antimasking time	Programmable		Weight	5.2kg
Antimasking	4 settings				

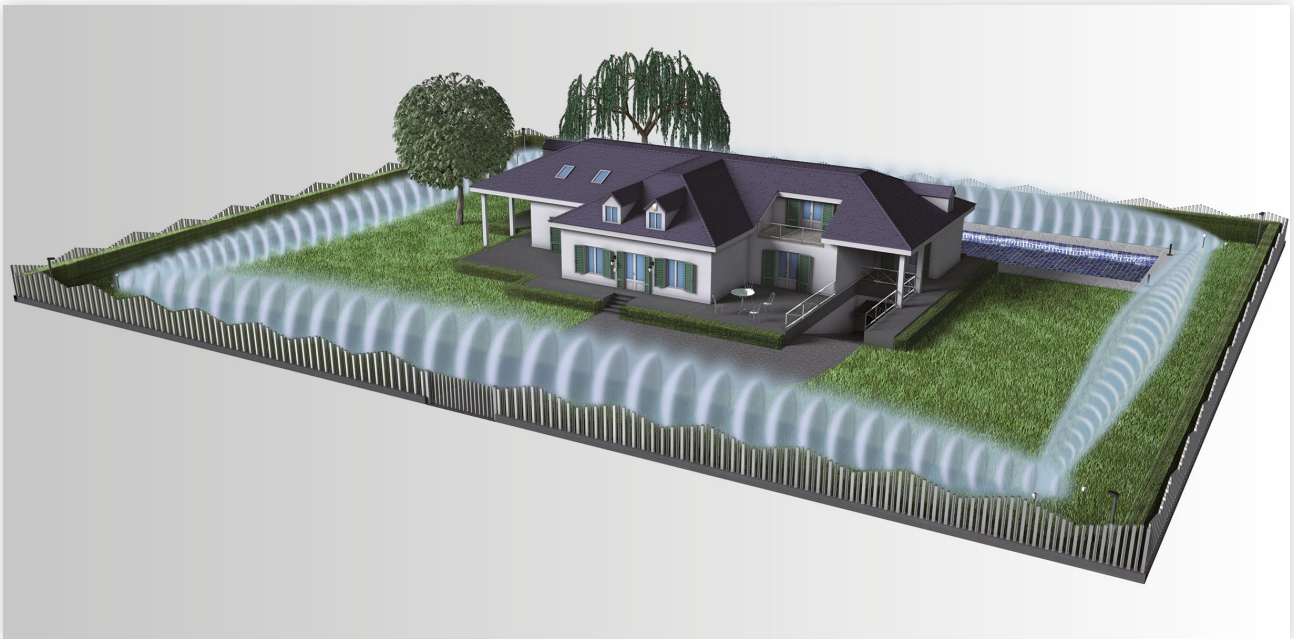


Configurations

Perimeter configuration



4-sides perimeter



	<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

DESIGN BY

pininfarina

INDOOR

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

DESIGN BY

pininfarina

OUTDOOR

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

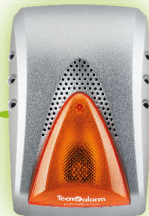
Enable or disable

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	117dB(A) @ 1m
	Frequency	2400Hz...3500Hz
Programmable functions	Program association	Programmable
	Functioning mode	indoor or outdoor
	Volume adjustment	4 levels
	Sound type	3 modes
	Signaling managed	Alarm Technical alarm Prealarm Arming/disarming Chime
Anti-tamper protection	Anti-opening/detachment	Micro-switch
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	780g
Conformity	Standards	EN 50131-4
	Security grade	3
	Notified body	IMQ

Bus sirens for outdoor use

SAEL 2010 BUS									
	<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>								
<p>Item no. F105S2010BUSBI - Casing: ABS base, ASA cover (white)</p>									
<p>Item no. F105S2010BUSGR - Casing: ABS base, ASA cover (silver gray)</p>									
<p>Item no. F105S2010BUSAL - Casing: ABS base, varnished aluminum cover</p>									
<p>Item no. F105S2010BUSCR - Casing: ABS base, chrome-plated aluminum cover</p>									

SAEL 2010 BUS - Technical and functional specifications

General features	Type	SAEL 2010 BUS	Functions	Self test	Automatic
Optical/acoustic specifications	Connection	Siren Bus	Electrical specifications	Operating voltage	10.5V...14.5V DC
	Sound level	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
				Battery	12V/2Ah
Programmable functions	Program association	Programmable	Physical specifications	Environmental class	IIIA
	Functioning mode	indoor or outdoor		Protection class	IP44-IK08
	Volume adjustment	4 levels		Casing	ASA or Aluminium
	Sound type	3 modes		Dimensions (L x H x D)	211 x 315 x 98mm
	Signaling managed	Alarm Technical alarm Prealarm Arming/disarming Chime Signallings of state		Weight	ASA 2kg - Al 2.7kg
Anti-tamper protection	Anti-opening/detachment	Micro-switch	Conformity	Standards	EN 50131-4
	Antifoam	✓		Security grade	3
				Notified body	IMQ



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>								
<p>Item no. F105S2010PBUSAL - Casing: ABS base, varnished aluminum cover</p>									
<p>Item no. F105S2010PBUSCR - Casing: ABS base, chrome-plated aluminum cover</p>									

SAEL 2010PRO BUS - Technical and functional specifications

General features	Type	SAEL 2010PRO BUS
	Connection	Siren Bus
Optical/acoustic specifications	Sound level	103dB(A) @ 1m
	Frequency	1400Hz...3600Hz
	Flashlight	LED
Programmable functions	Program association	Programmable
	Functioning mode	indoor or outdoor
	Volume adjustment	4 levels
	Sound type	3 modes
	Signaling managed	Alarm Technical alarm Prealarm Arming/disarming Chime Signallings of state
Anti-tamper protection	Anti-opening/detachment	Micro-switch
	Antifoam	✓
	Antidrilling	✓

Functions	Self test	Automatic
Electrical specifications	Operating voltage	10.5V...14.5V DC
	Stand-by consumption	12mA @ 13V DC
	Max. consumption	1.8A @ 13V DC
	Consumption during status signaling	70mA @ 13V DC
	Battery	12V/2Ah
Physical specifications	Environmental class	IIIA
	Protection class	IP44-IK08
	Casing	Aluminium
	Dimensions (L x H x D)	211 x 315 x 98mm
	Weight	3.1kg
Conformity	Standards	EN 50131-4
	Security grade	4
	Notified body	IMQ



ASYNC@WL
wireless products






The implementation of the wireless devices using the ASYNC@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 ASYNC@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	Micro-switch
	Connection	Serial Bus		Serial bus sabotage	✓
Wireless specifications	Communication protocol	ASYNC@WL	Physical specifications	Antijamming	✓
	Receiver	UHF		Environmental class	II
	Frequency bands	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 - 433MHz or 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>				
	TX240-3/433	Item no. F102TX240-3/433 - 433MHz frequency band			
	TX240-3/868	Item no. F102TX240-3/868 - 868MHz frequency band			

TX240-3 - Technical and functional specifications

General features	Type	TX240-3/433 TX240-3/868	Programmable functions	Program management	✓
	User interface	Function keys		3	Remote control management
Signal LED		1		Operational attributes	✓
Wireless specifications	Communication protocol	ASYNC@WL	Electrical specifications	Lithium battery	CR2032 - 3V
	Transmitter	UHF		Battery autonomy	> 1 year
	Frequency bands	433MHz or 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

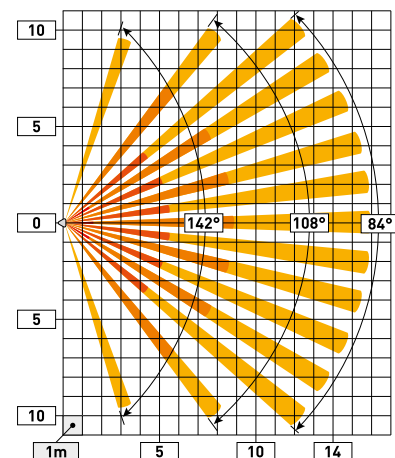
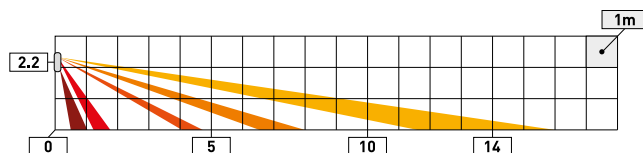
	TWINBAND WL							
	Wireless passive infrared detector - 433/868MHz frequency bands - ASYN@WL protocol - Volumetric protection: 29 infrared beams, 4 levels, 108° coverage, 14m maximum range - Anti-tamper protection: anti-opening/antidetachment, supervision - Lithium battery included - Environmental class 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
	Infrared beams levels	4
	Coverage	108°, range 14m
	Settings	Pulse count
Wireless specifications	Communication protocol	ASYN@WL
	Transmitter	UHF
	Frequency bands	433/868MHz
	Modulation	OOK

Anti-tamper protection	Anti-opening/detachment	
	Supervision	✓
Electrical specifications	Lithium battery	SOCL2 - 3.6V
	Battery autonomy	> 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 - Approved for certified detectors
	Item no. F102SNODO2000

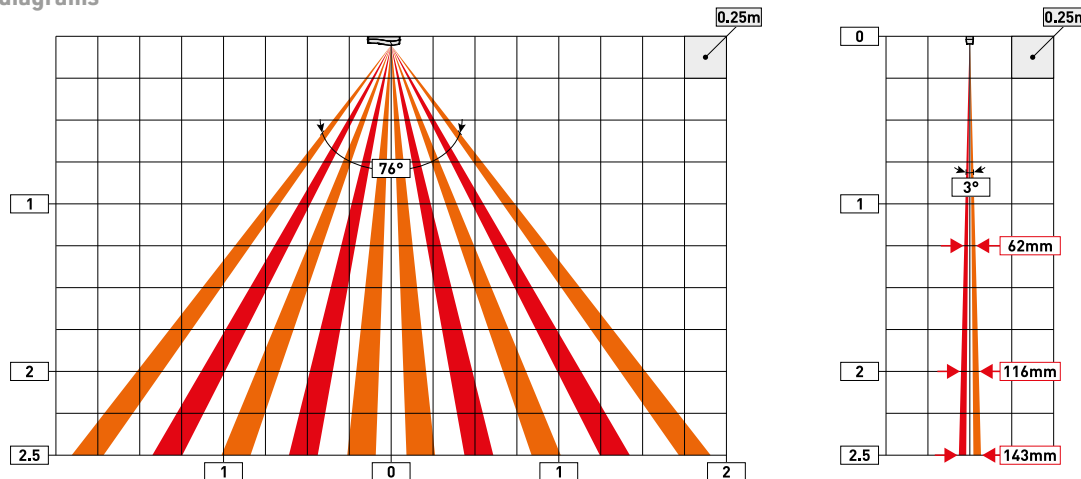


DRED500 BWL							
	Wireless detector for protection of openings, windows and doors - 868MHz frequency band - ASYN@WL and SYNC@BWL protocols - 2 independent detection units (dual ID): dual PIR element (ID1), internal contact and/or input for external device (ID2) - Volumetric protection: 10 infrared 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						
Item no. F102DRED500BWL (white)							
Item no. F102DRED500BWL (brown)							










DRED500 BWL - Technical and functional specifications

General features	Type	DRED500 BWL	Wireless specifications	Communication protocols	SYNC@BWL ASYN@WL
	Zones occupied	ID1 and ID2		Transceiver	UHF
Detection features ID1 - IR	Infrared detector	2 dual PIR elements	Frequency band	868MHz	
	Infrared beams	10	Modulation	OOK	
	Infrared beams levels	2	Anti-tamper protection	Anti-opening/detachment	Micro-switch
	Coverage	76°, range 2,5m		Supervision	✓
	Detection logics	AND	Functions	Self test	Automatic
	Settings	Pulse count		Electrical specifications	Lithium battery
	Temperature compensation	Automatic	Battery autonomy		> 3 years
Detection features ID2 - Contact	Hall sensor	Excludable	Physical specifications	Environmental class	II
	External contact input	Magnetic contact Pulse count Vibration detector		Protection class	IP4x-IK04
	Filter	Programmable		Casing	ASA
Functioning mode	1 Zone ID1 or ID2	OR logic		Dimensions (L x H x D)	168 x 30 x 46mm
	2 Zones ID1 and ID2	Independents	Weight	160g	

Coverage diagrams



Passive infrared for outdoor use

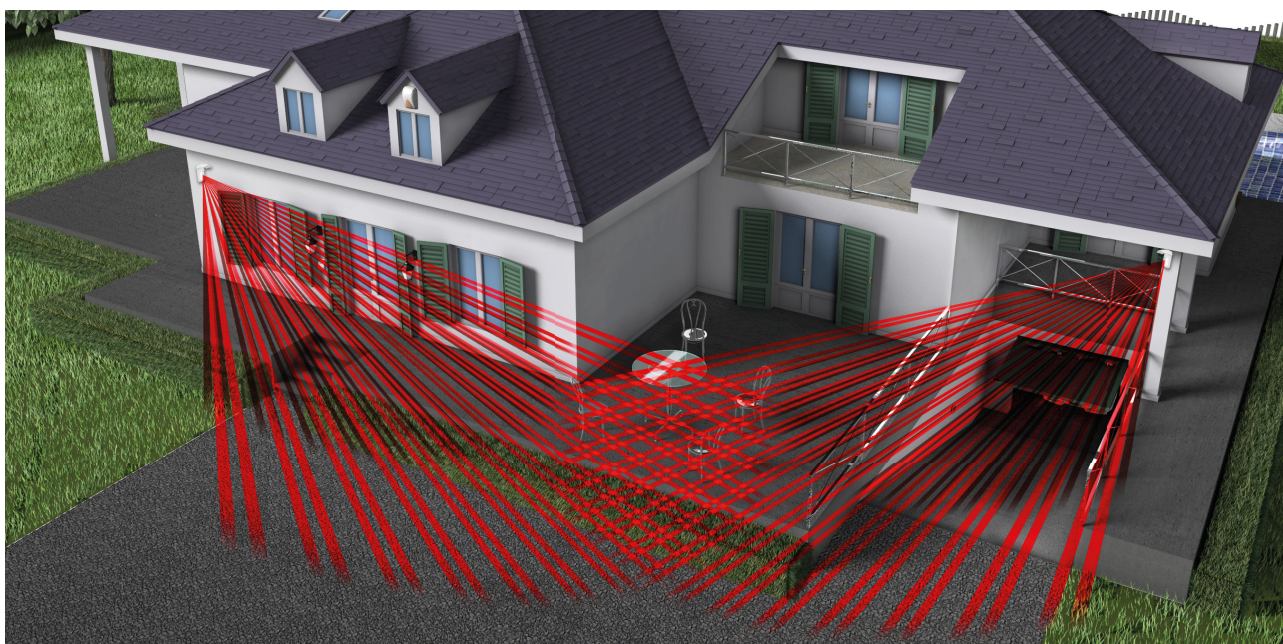
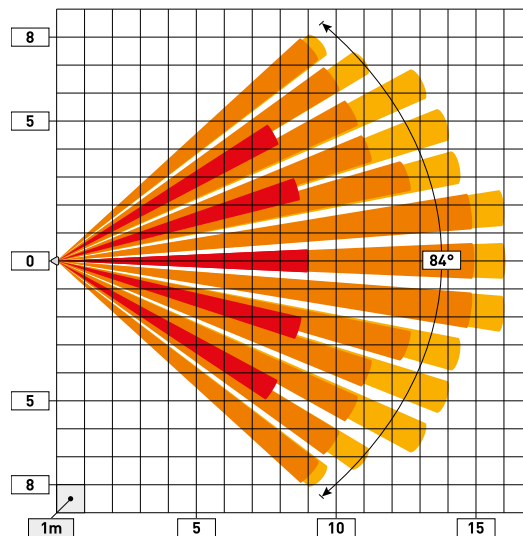
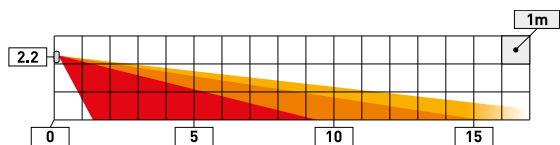
GLOB500 BWL									
	<p>Wireless passive infrared detector for protection of sheltered outdoor areas close to the building, gardens and terraces - 433/868MHz frequency bands - ASYN@WL and SYNC@BWL protocols - High-density volumetric protection with multi-point technology: 43 infrared beams, 5 levels, 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>								
<p>Item no. F102GLOB500BWL</p>									

GLOB500 BWL - Technical and functional specifications

General features	Type	GLOB500 BWL	Anti-tamper protection	Anti-opening/detachment	Micro-switch
Detection features	Infrared detector	3 dual PIR elements		Antimasking	Programmable
	Infrared beams	43		Supervision	✓
	Infrared beams levels	5	Functions	Self test	Automatic
	Coverage	84°, range 15m	Electrical specifications	Lithium battery	3.6V - 7.,8Ah
	Coverage adjustment	Lens shutter		Battery autonomy	> 2 years
	Detection logics	OR 2 modes AND	Physical specifications	Environmental class	III
	Settings	Pulse count		Protection class	IP44-IK04
Temperature compensation	Automatic	Casing		ASA	
Wireless specifications	Communication protocols	SYNC@BWL ASYN@WL		Dimensions (L x H x D)	76 x 192 x 83mm
	Transceiver	UHF	Weight	420g	
	Frequency bands	433/868MHz			
	Modulation	OOK			


OUTDOOR


Coverage diagrams













ASYN@WL

GLOB500 BWL - Accessories

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

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

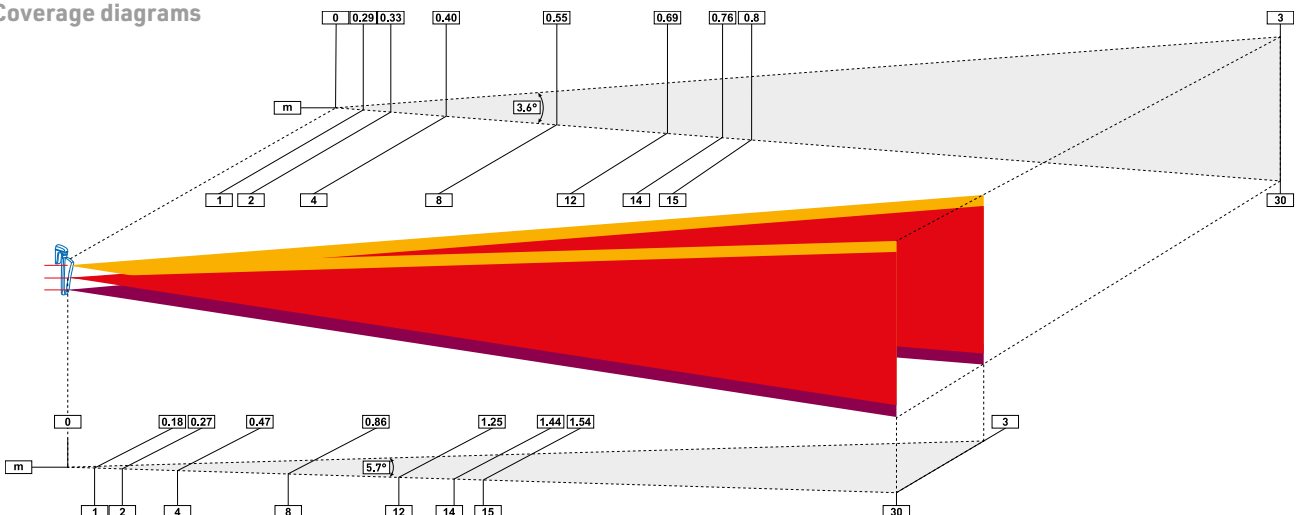
	SNODO GLOBAL SPACE
	Swivel mounting bracket with H ±90°, V ±10° orientation - Surface mounting - Anti-tamper protection: antidetachment
Item no. F102SNODOGLOB	

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/detachment	Micro-switch
Detection features	Infrared detector	3 dual PIR elements	Electrical specifications	Antimasking	Programmable
	Infrared beams	3		Supervision	✓
	Infrared beams levels	3		Physical specifications	Lithium battery
	Coverage	H5.7°, V 3.6, 30m range	Battery autonomy		> 3 years
	Detection logics	3 modes: AND	Environmental class		III
	Temperature compensation	Automatic	Protection class	IP55-IK04	
Orientation	180° (± 90°) horiz. 20° (± 10°) vert.	Casing	ASA		
Wireless specifications	Communication protocol	ASYN@WL	Dimensions (L x H x D)	82 x 400 x 260mm	
	Transceiver	UHF	Weight	1.2kg	
	Frequency bands	433/868MHz			
	Modulation	OOK			

Coverage diagrams





Magnetic contacts

TX310				
	<p>Wireless magnetic contact for protection of openings, windows and doors - 433/868MHz frequency bands - ASYN@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	Functioning mode	1 Zone ID1 or ID2	OR logic
	Zones occupied	ID1 and ID2		2 Zones ID1 and ID2	Independents
Detection features ID1 - Reed/contact	Reed contact	Excludable	Anti-tamper protection	Anti-opening/detachment	Micro-switch
	Input for external device	Magnetic contact		Supervision	✓
	Filter	Programmable	Electrical specifications	Lithium battery	SOCL2 - 3.6V
Detection features ID2 - Contact	Input for external device	Magnetic contact Pulse count Vibration detector		Battery autonomy	> 4 years
	Filter	Programmable	Physical specifications	Environmental class	II
Wireless specifications	Communication protocol	ASYN@WL		Protection class	IP3x-IK02
	Transceiver	UHF		Casing	ABS
	Frequency bands	433/868MHZ		Dimensions (L x H x D)	114.5 x 38.5 x 30mm
	Modulation	OOK	Weight	100g	

ASYN@WL

TX310 - Accessories

	BATTERY TESTER
	Wireless battery tester for TX310
	Item no. F102BATTERYTEST

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	Coverage	Range 80m	Supervision	Lithium battery	3,6V-13Ah
	Infrared beams	2			
	Beam power	4 levels	Battery autonomy	> 3 years	
	Response time	Programmable			
	Disqualification	Programmable	Physical specifications	Environmental class	III
	Synchronization	Digital automatic		Protection class	IP45
	Orientation	180° (± 90°) horiz. 20° (± 10°) vert.		Casing	PC Makrolon
Wireless specifications	Communication protocol	ASYN@WL		Dimensions (L x H x D)	102 x 436 x 106mm
	Transceiver	UHF	Weight	3.6Kg	
	Frequency bands	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
Wireless specifications	Communication protocol	ASYN@WL
	Transmitter	UHF
	Frequency bands	433/868MHz
	Modulation	OOK

Anti-tamper protection	Supervision	✓
Electrical specifications	Lithium battery	SOCL2 - 3.6V
	Battery autonomy	> 3 years
Physical specifications	Environmental class	II
	Protection class	IP22-IK02
	Casing	ABS V0
	Dimensions (Ø x H)	100 x 55mm
	Weight	115g




Detectors

For indoor or 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

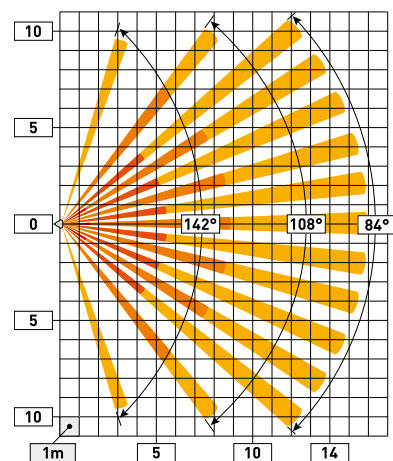
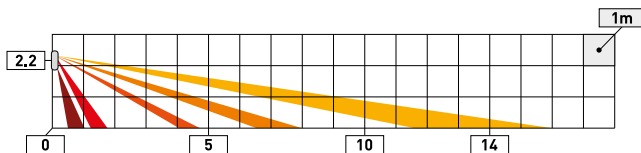
	INFROTEK INFROTEK MASK								
	Passive infrared detectors - Available with wide angle, long range, curtain and pet-immune wide angle lens - Coverage depending on the model - Anti-tamper protection: anti-opening/antidetachment, antimasking (INFROTEK MASK only) - Environmental class II (indoor general) - 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	Electrical specifications	Operating voltage	10.5V...14.5V DC
Detection features	Infrared detector	Dual PIR element		Consumption INFROTEK	5mA @ 12V DC
	Infrared beams	29		Consumption INFROTEK MASK	Max. 10mA @ 12V DC
	Infrared beams levels	4	15mA @ 12V DC		
	Coverage	108°, range 14m	Max. 22mA @ 12V DC		
	Settings	Sensitivity	Physical specifications	Environmental class	II
Temperature compensation	Automatic	Protection class		IP4x-IPK04	
Anti-tamper protection	Anti-opening/detachment	Micro-switch		Casing	ABS
	Antimasking	Programmable*		Dimensions (L x H x D)	68 x 118 x 51mm
Inputs	Inhibition of detection	Stand-by	Weight	150g	









* Only available with INFROTEK MASK

Coverage diagrams



INFROTEK - INFROTEK MASK - Accessories

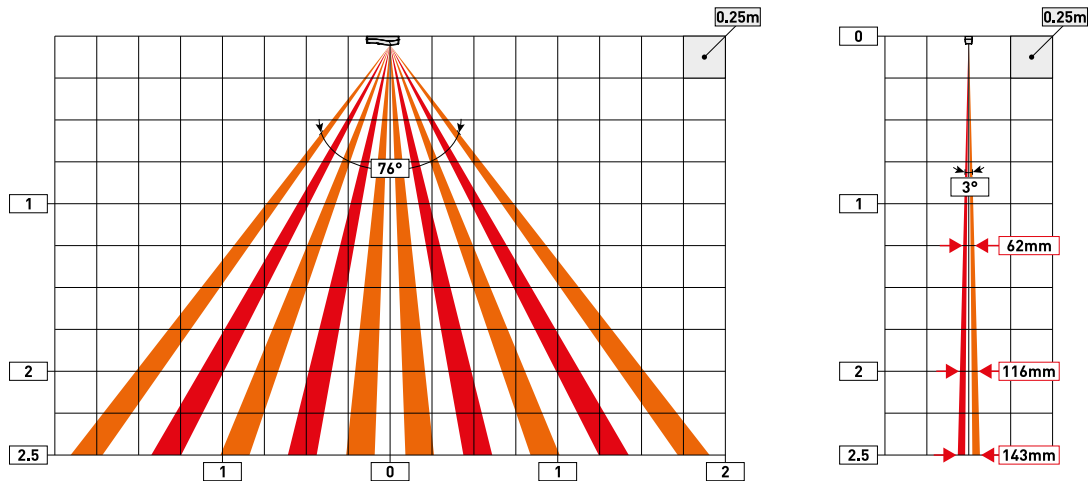
	SNODO 2000
	Swivel mounting bracket with H±45°, V -15° orientation - Surface mounting - Anti-tamper protection: anti-opening/antidetachment - Approved for certified detectors
Item no. F102SNODO2000	

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, rope contact or vibration detector - 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	Inputs	Inhibition of detection	Stand-by	
Detection features IR	Infrared detector	2 dual PIR elements	Anti-tamper protection	Anti-opening/detachment	Micro-switch	
	Infrared beams	10		Functions	Self test	Automatic
	Infrared beams levels	2			Electrical specifications	Operating voltage
	Coverage	76°, range 2.5m	Stand-by consumption	20mA @ 12V DC		
	Detection logics	AND	Max. consumption	25mA @ 12V DC		
	Settings	Pulse count Range Sensitivity	Physical specifications	Environmental class		II
	Temperature compensation	Automatic		Protection class	IP4x-IK04	
Detection features Contact	Reed contact	Excludable		Casing	ASA	
	External contact input	Magnetic contact		Dimensions (L x H x D)	168 x 30 x 46mm	
Detection logic	Infrared and contact	AND logic		Weight	132g	
	Infrared or contact	OR logic				

Coverage diagrams



INDOOR

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 50131-2-4 certification 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</p>

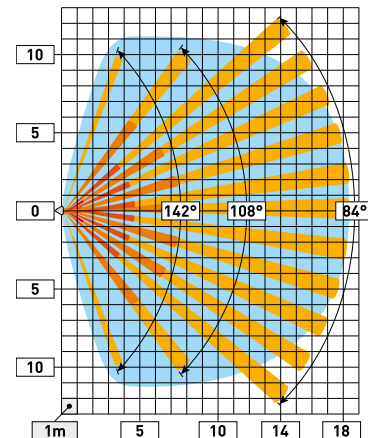
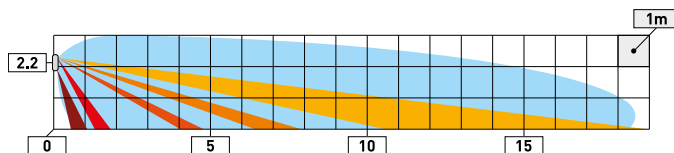
TWINTEC - Technical and functional specifications

General features	Type	TWINTEC
Detection features	Infrared detector	Dual PIR element
	Infrared beams	29
	Infrared beams levels	4
	Temperature compensation	Automatic
	Microwave frequency	10.525GHz*
	MW settings	Sensitivity
	Coverage	108°, range 18m
	Detection logics	2 modes: AND AND + WALK
Inputs	Inhibition of detection	Stand-by
	Synchronization	Sync
Anti-tamper protection	Anti-opening/detachment	Micro-switch

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

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

TWINTEC - TWINTEC MASK - Accessories

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

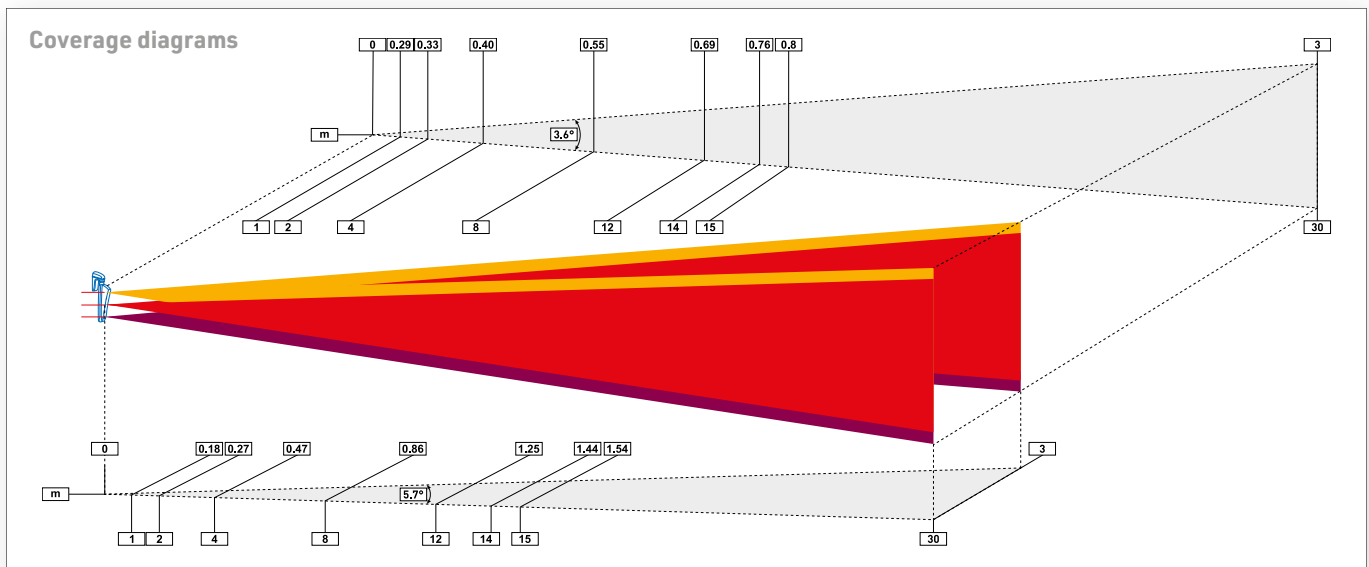


Passive infrared for outdoor use










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	Anti-tamper protection	Anti-opening/detachment	Micro-switch
Detection features	Infrared detector	3 dual PIR elements	Functions	Antimasking	Programmable
	Infrared beams	3		Self test	Automatic
	Levels (infrared beams)	3	Electrical specifications	Operating voltage	10V...14.5V DC
	Settings	Pulse count Sensitivity		Stand-by consumption	27mA @ 12V DC
	Temperature compensation	Automatic		Max. consumption	25mA @ 12V DC
	Coverage	5.7°, range 30m	Physical specifications	Environmental class	III
	Detection logics	8 modes: AND		Protection class	IP55-IK04
Orientation	180° (± 90°) horiz. 20° (± 10°) vert.	Casing		ASA	
Inputs	Inhibition of detection	Dimensions (L x H x D)		82 x 400 x 260mm	
		Weight	1.2kg		



Dual technology for outdoor use

GLOBAL SPACE	       
	<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>
	Item no. F102GLOSPACE - MW frequency 10.525GHz
	Item no. F102GLOSPACE/99 - MW frequency 9.9GHz
	Item no. F102GLOSPACE/93 - MW frequency 9.35GHz

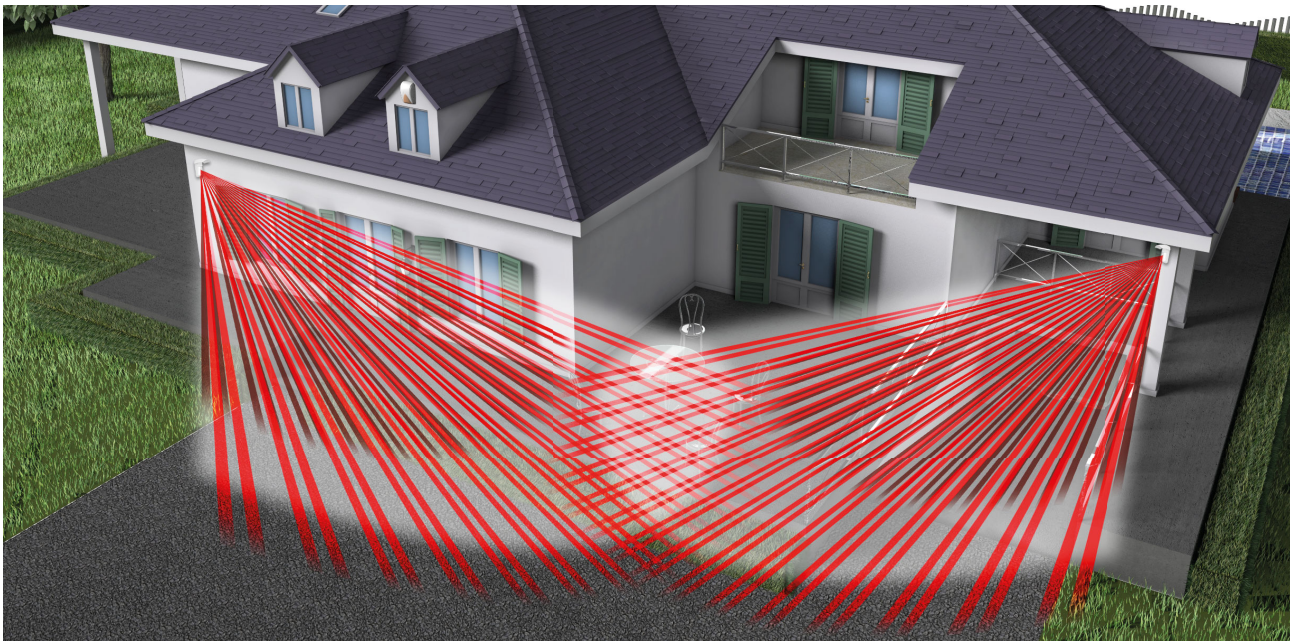
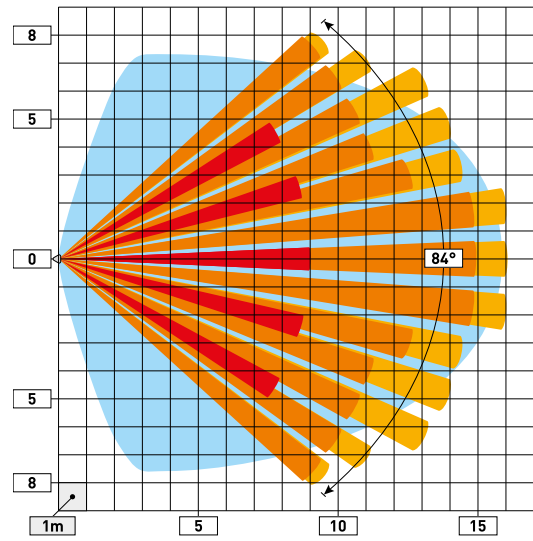
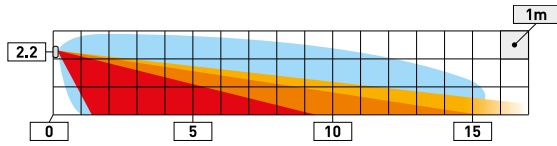
GLOBAL SPACE - Technical and functional specifications

General features	Type	GLOBAL SPACE	Anti-tamper protection	Anti-opening/detachment	Micro-switch
Detection features	Infrared detector	3 dual PIR elements	Functions	Antimasking	Programmable
	Infrared beams	43		RDV®	Programmable
	Infrared beams levels	5	Self test	Automatic	
	IR programming	Pulse count Sensitivity	Electrical specifications	Operating voltage	10V...14.5V DC
	Coverage adjustment	Lens shutter		Stand-by consumption	30mA @ 12V DC
	Temperature compensation	Automatic		Max. consumption	37mA @ 12V DC
	Microwave frequency	10.525GHz*	Physical specifications	Environmental class	III
	Microwave detector	Excludable		Protection class	IP44-IK04
	Coverage	84°, range 15m		Casing	ASA
	Detection logics	4 modes AND		Dimensions (L x H x D)	76 x 192 x 83mm
Inputs	Inhibition of detection	Weight		240g	

* Also available with the frequencies 9.9GHz and 9.35GHz








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	

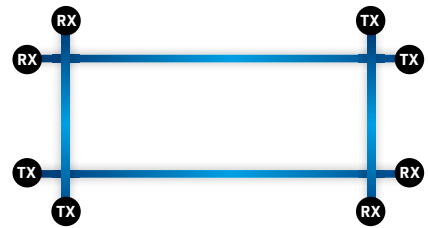
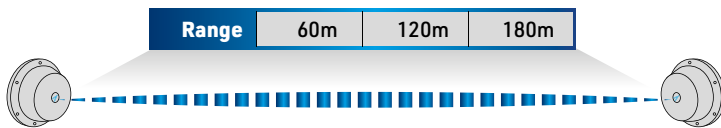
EXPLORER II - Technical and functional specifications

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

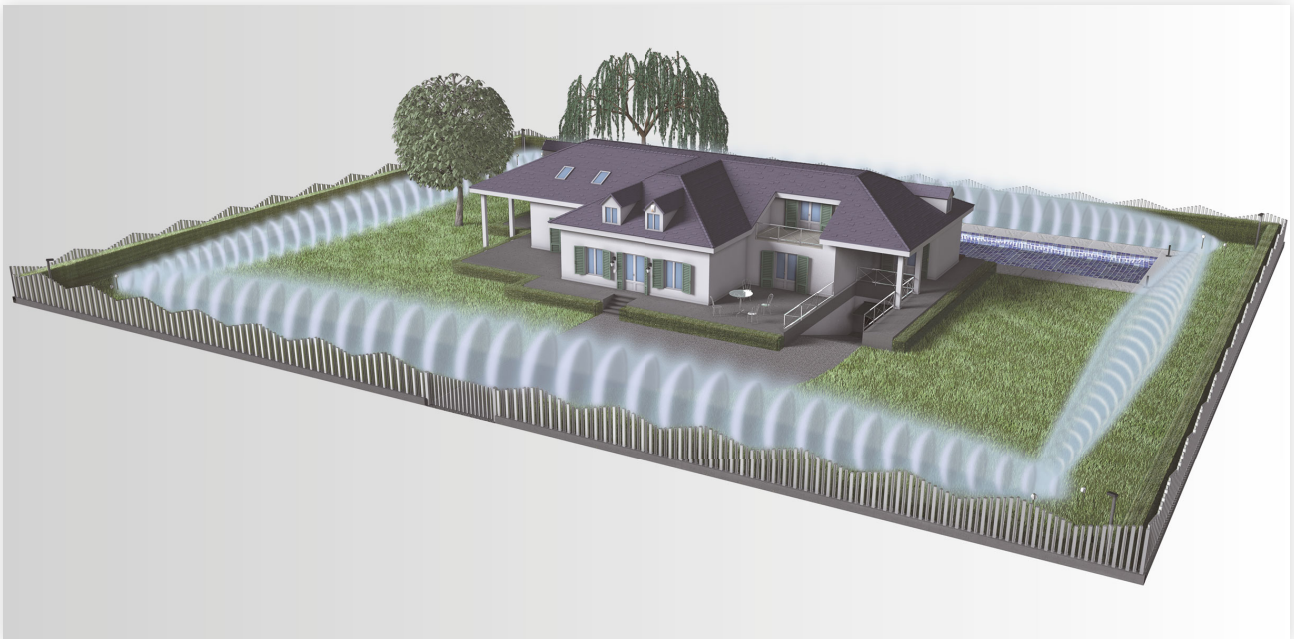


Configurations

Perimeter configuration



4-sides perimeter



EXPLORER II - Accessories

	<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>TECNOTESTER</p> <p>Tester for alignment of EXPLORER II.</p> <p>Item no. F102TESTEREXPL</p>



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	QUADBEAM 100	Range 100m	Electrical specifications	Operating voltage	10.5V...14.5V DC
	QUADBEAM 200	Range 200m		Stand-by consumption	61mA @ 12V DC
	Infrared beams	4		Max. consumption	88mA @ 12V DC
	Response time	Programmable	Physical specifications	Environmental class	III
	Disqualification	Programmable		Protection class	IP45
	Synchronization	Digital automatic		Casing	PC Makrolon
	Orientation	180° (± 90°) horiz. 20° (± 10°) vert.		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

INDOOR

Optical smoke detectors

SMOKY WIRED	   
	<p>Conventional optical smoke detector - Tyndall effect - Sensitivity programmable on 3 levels - Programmable contact type and alarm signal 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
	Sensitivity	Programmable
	Range	5m
Signaling	Optical	Stand-by status Alarm Failure
Outputs	Alarm	NC contact
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 or 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) ABS 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	90dB(A) @ 3m	Electrical specifications	Operating voltage	10.5V...14.5V DC
	Frequency	3400Hz...4000Hz 3700Hz		Max. consumption	50mA @ 13.8V DC
Programming functions	Sound type	2 settings	Physical specifications	Environmental class	II
Inputs	Alarm	✓		Protection class	IP34
	Prealarm	✓		Casing	ABS
				Dimensions (L x H x D)	105 x 160 x 44mm
			Weight (w/o battery)	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) ABS 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	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 (red or white)		Max. consumption SIREL LED R	110mA @ 13.8V DC
Programming functions	Sound type	2 settings	Physical specifications	Environmental class	II
	Flashlight	2 settings		Protection class	IP34
Inputs	Alarm	✓		Casing	ABS
	Prealarm	✓		Dimensions (L x H x D)	105 x 160 x 44mm
	Flashlight	✓	Weight	190g	

SIRTEC							
	Self-powered magneto-dynamic siren - Sound level 117dB(A) @ 1m - Frequency 2400-3500Hz - 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						
	Item no. F105SIRTEC (white)						
	Item no. F105SIRTECGR (silver gray)						





















SIRTEC - Technical and functional specifications

General features	Type	SIRTEC
Acoustic features	Sound level	117dB(A) @ 1m
	Frequency	2400Hz...3500Hz
Programming functions	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	IP41-1K07
	Casing	ABS
	Dimensions (L x H x D)	290 x 95 x 70mm
	Weight (w/o battery)	760g
Conformity	Standard	EN 50131-4
	Security grade	2
	Notified body	IMQ

OUTDOOR

Sirens for outdoor use

SAEL 2010 LED									
	<p>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</p> <p>Item no. F105SAEL2010LBI - Casing: ABS base, ASA cover (white)</p> <p>Item no. F105SAEL2010LGR - Casing: ABS base, ASA cover (silver gray)</p> <p>Item no. F105SAEL2010LAL - Casing: ABS base, varnished aluminum cover</p> <p>Item no. F105SAEL2010LCR - Casing: ABS base, chrome-plated aluminum cover</p>								
SAEL 2010PRO LED									
	<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 - 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</p> <p>Item no. F105S2010PROL</p>								

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

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



Power supplies

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 - Metal casing - Black - EN 50131-6 certification security grade 2</p>					
Item no. F107TAPS-8						

TAPS-8 - Technical and functional specifications

General features	External power supplies	Type A
		8A/13.8V DC
Electrical output specifications	Power supply outputs	5
	Output voltage	12.5V...13.8V DC
	Max. ripple	≤50mVpp
	Battery recharge current	850mA each
	Current available for loads	Max. 5.5A
	Overvoltage protection	>16V ±10%
	Overcharge signal	1 LED per output
Failure outputs	Power supply lost	NC - relay
	Power supply failure	NC - relay
Anti-tamper protection	Anti-opening and anti-detachment	Micro-switch
Electrical specifications	Switching power supply	8A/13.8V DC
	Operating voltage	230V AC 50Hz
	Max. consumption	600mA AC





Batteries (Storage Device)	Capacity	2x 12V/17Ah
	Battery test	Automatic
	Charging time	80% ca. 19h (2 batteries of 17Ah)
	Low battery threshold	10.8V DC
	Cut-off voltage	<8.8V DC
Physical specifications	Environmental class	II
	Protection class	IP3x
	Casing	Metal
	Dimensions (L x H x D)	320 x 365 x 170mm
	Weight	5.8kg
Autonomy	Grade 2	12h (2.83Ah*)
Conformity	Standards	EN 50131-6
	Security grade	2
	Notified body	IMQ
<i>* Available current for loads in case of power failure</i>		

UPS1260	  
	<p>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</p>
Item no. F107UPS1260	

UPS1260 - Technical and functional specifications

General features	External power supplies	6A/13.8V DC
Electrical output specifications	Power supply outputs	4
	Rated output voltage	13.8V DC
	Max. ripple	≤160mVpp
	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	Switching power supply	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	  
	<p>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</p>
Item no. F107UPS2435	

UPS2435 - Technical and functional specifications

General features	External power supplies	3.5A/27.8V DC
Electrical output specifications	Power supply outputs	4
	Rated output voltage	27.8V DC
	Max. ripple	≤180mVpp
	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	Switching power supply	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

Build-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

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

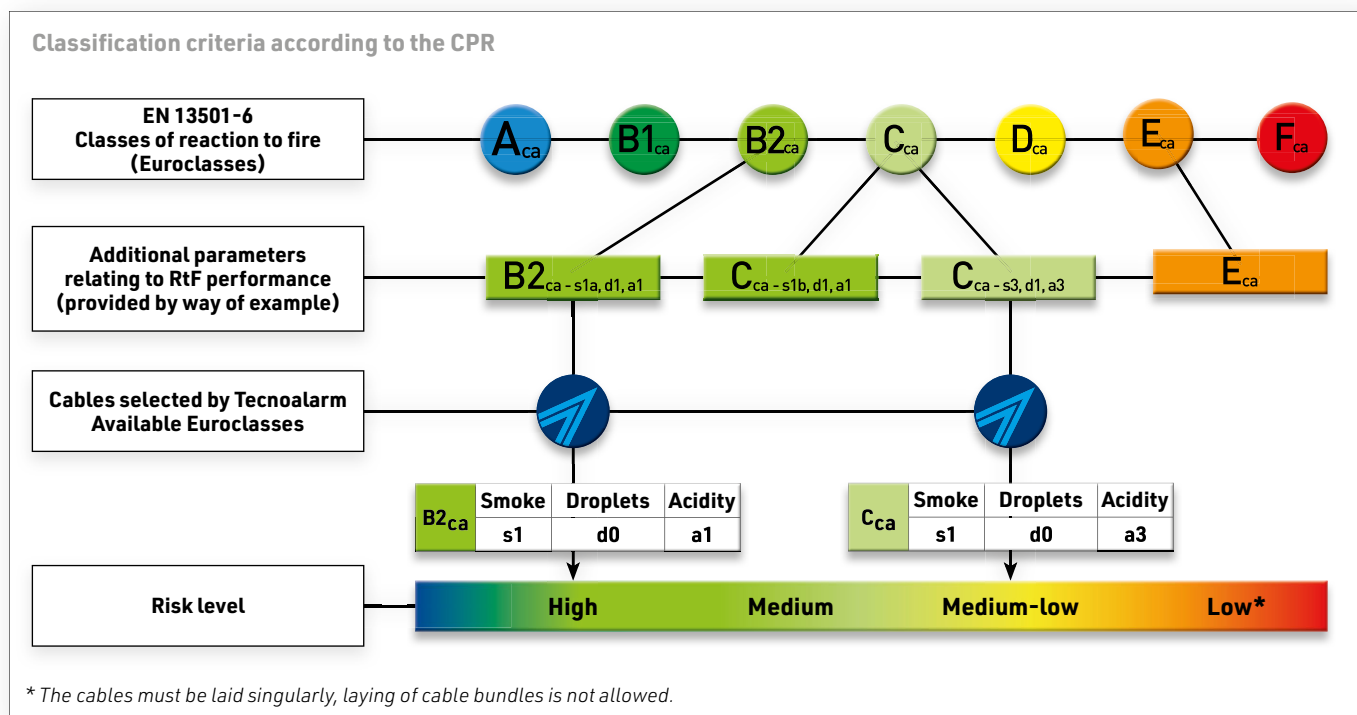
PVC C_{ca} - s1, d0, a3						

ITEM	NOTES	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	NOTES	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.*



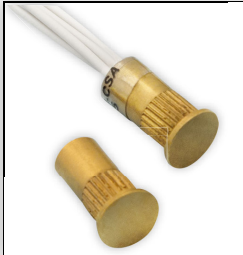





Reed contacts - EN 50131-2-6 certification security grade 3

	<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 anti-detachment protection</p>
	<p>Item no. F1061001N</p>		<p>Item no. F1061021N</p>

Reed contacts - EN 50131-2-6 certification 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 2)</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 D) 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 D) 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 D) 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 D) 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 D) 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 D) 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>

	<p>415 TF2 </p> <p>As 415 TF but with 2m sheathed cable</p> <hr/> <p>Item no. F106415TF2</p>		<p>314 </p> <p>Magnetic contact - Wire connection - Flush mounting - Environmental class III - IP65 - Brass - Dimensions (Ø x D) 8 x 12mm (sold in packs of 10)</p> <hr/> <p>Item no. F106314</p>
	<p>CTE 045 </p> <p>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)</p> <hr/> <p>Item no. F106CTE 045</p>		<p>CTE 045M </p> <p>As CTE 045 but brown</p> <hr/> <p>Item no. F106CTE 045M</p>

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

	<p>405 M </p> <p>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)</p> <hr/> <p>Item no. F106405M</p>		<p>405 MM </p> <p>As 405 M but brown</p> <hr/> <p>Item no. F106405MM</p>
---	---	--	--




Mechanical rod and rope contacts

	<p>470</p> <p>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)</p> <hr/> <p>Item no. F106470</p>		<p>SW 912</p> <p>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)</p> <hr/> <p>Item no. F106SW 912</p>
		<p>474</p> <p>Rope slide for SW 912 - Surface mounting - Zink-plated steel - Length 278mm</p> <hr/> <p>Item no. F106474</p>	

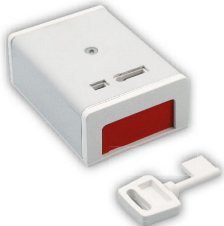






Vibration detectors

	<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> <p>Item no. F106CINEM5 (white)</p> <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 D) 20 x 28.5mm (sold in packs of 2)</p> <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 D) 22 x 54mm (sold in packs of 2)</p> <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> <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 D) 13 x 14mm (sold in packs of 2)</p> <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> <p>Item no. F106CINSND3</p>

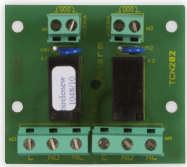

Flood detectors

	<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></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></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></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

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






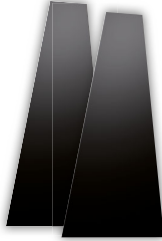


DEMO-CASE EVOLUTION

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










ITEM	DESCRIPTION	ITEM NO.
EV 4-24 4G	Control panel	F101EV4244G-UK
EV MOD BWL	Wireless receiver-transmitter	F102EVMODBWL
EV ESP 4IN	Internal input expansion	F127EVESP4IN
EV LCD	Console	F127EVLCD
EV LCD BWL	Wireless console	F102EVLADBWL
EV CMD BWL	Wireless key	F102EVMCDBWL
EV KEY	Transponder	F103EVKEY
EV OUT5RP BWL	Wireless output expansion	F127EVOUT5RPBWL
EV DRED BWL	Wireless detector for protection of openings, windows and doors	F102EVDREDBWL
EV GLOB BWL	Wireless passive infrared detector	F102EVGLOBBWL
EV SAEL BWL	Wireless piezoelectric siren for outdoor use	F102EVSARELBWL
EV SIREL BWL	Wireless piezoelectric siren for indoor use	F102EVSIRELBWL
EV CAM BWL	Wireless passive infrared detector with integrated camera	F102EVCAMBWL
EV IRS BWL	Wireless passive infrared detector	F102EVIRESBWL
EV IR BWL	Wireless passive infrared detector	F102EVIRESBWL/V
EV SMK BWL	Wireless optical smoke detector	F102EVSMBWL
EV TERM BWL	Wireless temperature and humidity detector	F102EVERTMBWL
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	F102EVTXSBL

N.B. The demo-cases are assembled on request. For further information, please refer to the Sales Department.



Display equipment

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. P100ESPPAN		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














































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		WORKING 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. ZCAMICIA		Item no. ZPOLO
		TROUSERS	
			Trousers with Tecnoalarm logo - Blue
			Item no. ZPANTALONI

Deterrent signs and labels

















DETERRENT SIGN		DETERRENT LABELS	
	Deterrent sign PVC - Dimensions (Ø x D): 300 x 1.5mm Aluminum composite - Dimensions (Ø x D): 300 x 3mm		3 deterrent labels - Diameter: 180mm, 90mm, 50mm
	Item no. P100CARTELPVC (PVC)		
	Item no. P100CARTELALL (Al)		Item no. P100ADESIVI

















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 by IMQ		VIDEOALARM IP System managing the IP surveillance cameras
	MONITORING Local/remote monitoring software		EN Device certified to the indicated standards		RSC® Device featuring Remote Sensitivity Control technology
Telematic services			SECURITY GRADE 2 EN 50131 security grade 2 certification		RDV® Device featuring Remote Digital Verification technology
	TCS Tecnoalarm Connect Service for end-user applications		SECURITY GRADE 3 EN 50131 security grade 3 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 4 EN 50131 security grade 4 certification		CLIMATIC ZONES Number of thermostats managed
	MAIL SERVER TECNOALARM Tecnoalarm Mail Server for alarm notifications by email		CLASS II EN 50131 environmental class II (indoor general)		CONVENTIONAL ZONES Zones managing conventional detectors
	SNTP Synchronization of control panel clock with an NTP server		CLASS III EN 50131 environmental class III (indoor and sheltered outdoor)		SENSOR BUS ZONES Zones managing RSC® detectors
App			CLASS IIIA EN 50131 environmental class IIIA (indoor and sheltered outdoor)		ZONE BUS ZONES Zones managing Zone Bus detectors
	evolution App for EV systems		CLASS IV EN 50131 environmental class IV (outdoor general)		OUTPUTS Alarm and/or signaling outputs available
	myTecnoalarm TCS App for TP systems connected via TCS	Systems			PROGRAMS MANAGED Number of programs managed
	myTecnoalarm App for TP systems connected via TCS, DDNS or static IP address		SERIAL BUS RS485 serial bus for the connection of conventional devices		REMOTE CONTROLS Number of remote controls managed
Accessory management			SENSOR BUS Serial bus for the connection of RSC® detectors		CODES Number of access codes managed
	ADVANCED PROGRAMMING System featuring the advanced programming level		SIREN BUS Serial bus for the connection of RSC® signaling devices		RFID KEYS Number of transponders managed
	SUPERVISOR System compatible with supervision software		WL BUS Serial bus for the connection of the EV wireless receiver-transmitter		WL KEYS Number of wireless keys managed
	TECNO OUT System featuring the Tecno Out protocol for connection to third party software controllers		EV@BWL Device compatible with 2-way wireless protocol		RFID CARD MANAGEMENT System managing RFID cards concomitantly or alternatively to transponders
					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 recording of photos (Video Verification)
	VOCABULARY System featuring voice synthesis with a hard-programmed vocabulary
Communication devices	
	GSM On board or plug-in GSM interface
	GSM-EXT 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
Videalarm	
	VIEWED Device managing 24 cameras in the full screen or mosaic mode
	RECORDED Device capable of recording video clips from 8 cameras
	SD CARD SLOT SD card management for storage of video clips
	RJ45 INTERFACE RJ45 port for the connection of Ethernet computer network cables
	IP PORT Standard IP port
	UTP CAT 5 CONNECTION Unique data and power supply cable
	UTP CAT 5 AND POWER CONNECTION Separate data and power supply cables
	MAX. CONNECTION DISTANCE Maximum connection distance between the device and TECNOSWITCH

Control units	
	CODES Management of numeric access codes
	PROXKEY READER Device equipped with transponder 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
	COLORS DISPLAY Device equipped with a display of the indicated size (inch)
	CAPACITIVE TOUCH SCREEN Device equipped with capacitive touch screen
	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
	TOUCH-SENSITIVE Device equipped with touch-sensitive steal 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 AND detection logics
	AND WALK LOGIC Device featuring AND, WALK detection logics
	AND - OR WALK LOGIC Device featuring AND, WALK, OR 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 wide angle pet 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 m
	8 BEAMS Number of beams produced
	SYNC MODE Device featuring synchronisation mode
	RANGE Maximum range in m
	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
	TRANSCIEVER TEST Wireless receiver-transmitter test function
General	
	INTERNAL EXPANSION Expansion module mounted inside the control panel casing
	ABS BOX Casing primarily made of ABS
	METAL 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.

*The images in this document are provided only for demonstrative purposes and are protected by copyright.
Unauthorized reproduction or distribution of this document, or any portion of it,
on any device and in any form, is prohibited.
Tecnoalarm cannot be held responsible for any incorrect information or incomplete,
inaccurate or outdated characteristics in this document.*



Tecnalarm

Via Ciriè, 38 - 10099 - San Mauro T.se Torino (Italy)
Tel. +39 011 22 35 410
info@tecnoalarm.com

Tecnalarm FRANCE

495, Rue Antoine Pinay - 69740 Genas - Lyon (France)
Tél. +33 (0)4 78 40 65 25
tecnoalarm.france@tecnoalarm.com

Tecnalarm ESPAÑA

C/Vapor 18 (Pol. Ind. El Regàs) - 08850 Gavà - Barcelona (España)
Tel. +34 936 622 417
tecnoalarm@tecnoalarm.es



ISO 9001

MADE IN ITALY

