General catalogue

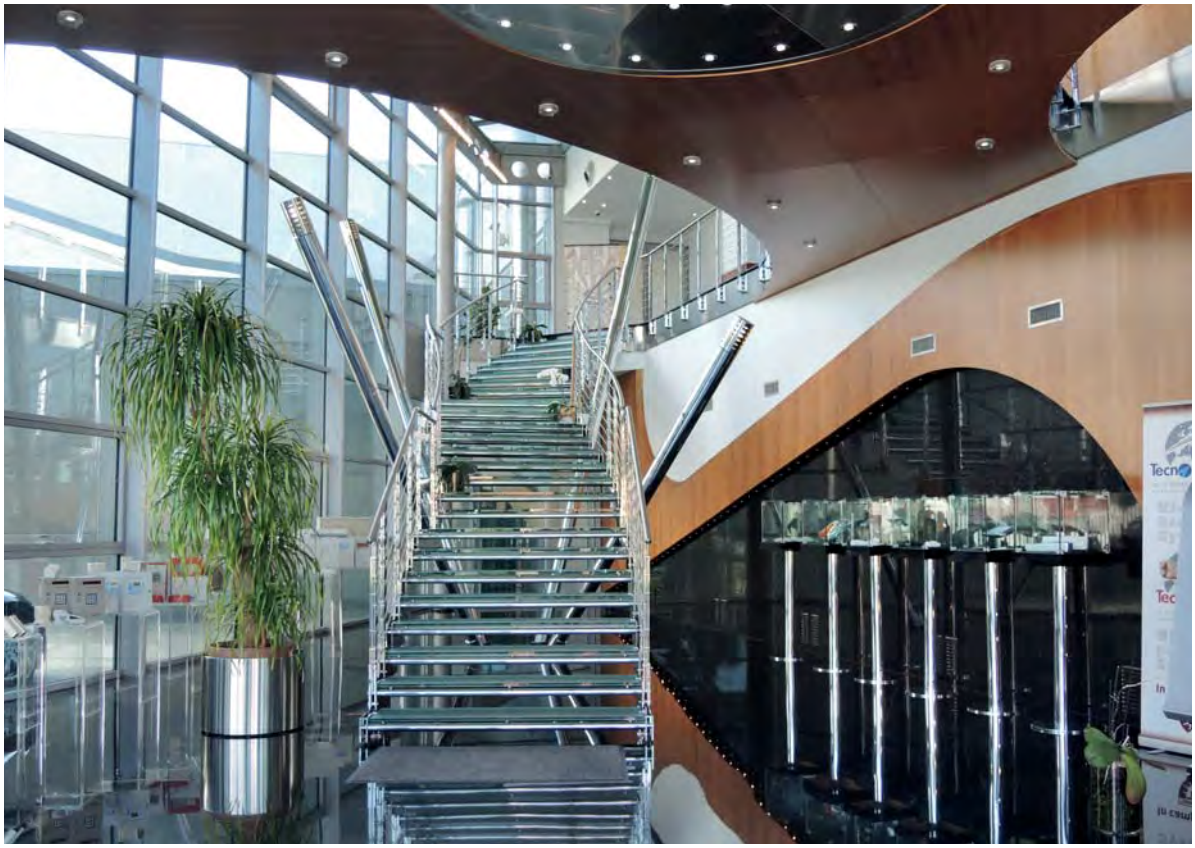
Edition 1 - 2016

Tecnoalarm
Hi-Tech Security Systems

TECNOALARM INTERNATIONAL LEADER OF SECURITY

An Italian story

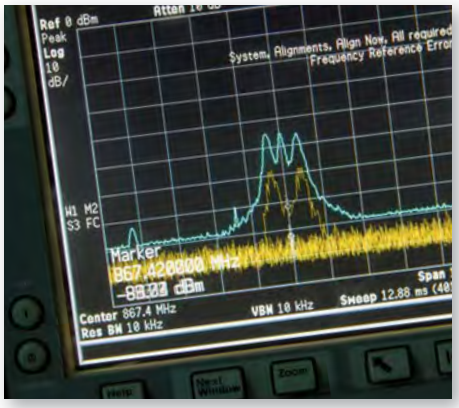
Tecnoalarm, with more than thirty-five years of experience in the security sector, is synonymous of an unceasing research and technological innovation.
Today, the company from Turin, which has achieved a position of absolute excellence in Italy and in Europe, is rapidly conquering markets worldwide. This not only thanks to the technological know-how, the sophisticated inspection techniques and the ability to always propose advanced solutions and high quality products, but also to the great attention that the company pays to the market trends and to the voices of qualified operators in the sector.

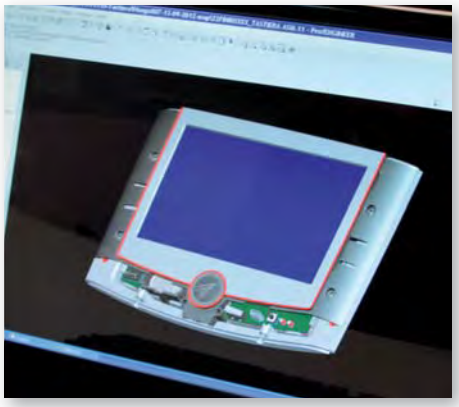


Architects, planners and interior designers can find in Tecnoalarm the ideal partner for the design, installation and management, even customized, of integrated solutions aimed at protecting locations such as dwellings, buildings, commercial and industrial areas, airports, highly sensitive locations and large retail complexes and centers.
The technological innovation and design, strictly "made in Italy", are enriched by that "touch of genius" which is the unique characteristic of Italian style. Tecnoalarm is proud to spread this culture, these values and this knowledge around the world.

Advanced security solutions

The Tecnoalarm research department has developed an extensive range of detectors for the three levels of intrusion protection: perimeter protections of the estate, those for the outdoor and the indoor of the building.
The perimeter protection is made with long-range barriers, which have been specifically developed for outdoor installations like industrial sites, warehouses, courtyards or gardens.
Barriers and detectors protect the outside of the building and the access ways like doors and windows.
The indoor detectors capture the presence of intruders in each specific area of the building as well as sabotage attempts thanks to innovative anti-tamper protections like the antimasking control.
The Tecnoalarm systems can be integrated with wireless components for an easy installation in inaccessible places.
All the wireless devices are equipped with dual-band technology to ensure a good quality of transmission and reception of the wireless signals.
The user interface is friendly with control units which also integrate interactive voice functions.





RSC® Technology (Remote Sensitivity Control)

The innovative RSC® technology permits the communication between the alarm system and the Tecnoalarm software operated in the installer's office thanks to a specific protocol developed by the Tecnoalarm research department. The sophisticated technology allows to check functioning of each device to guarantee a continuous and reliable service and ensure an efficient use of the system's resources. RSC® technology is a valid tool for a preventive maintenance of the systems.

RDV® Technology (Remote Digital Verification)

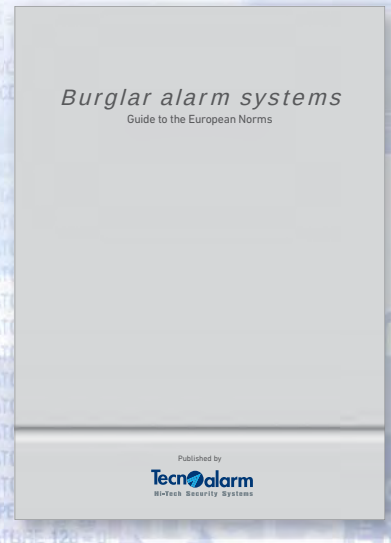
Another showpiece of Tecnoalarm is the RDV® technology protected by international patent. It allows the final user to verify in real time if the alarm has been caused by an intrusion. The digital alarm signal is transformed into a particular sound signal whose intensity is directly proportional to the detected movement. This signal is sent to the user's mobile phone or the central monitoring station for the necessary action.

Training

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.

The security professionals

It is only thanks to an appropriate project and a correct 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 by attending training courses on a regular basis.
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 standards. Concerning this issue, Tecnoalarm has published the **Guide to the European Standards for Burglar Alarm Systems** with the purpose to explain in a simple and comprehensive way the national and European regulatory framework.



INDEX

Systems	p. 10
Telematic services and App	p. 12
Videoalarm	p. 68
Consoles and control units	p. 76
Expansion modules	p. 88
RSC® technology	p. 94
Wireless	p. 122
Detectors	p. 136
Sirens	p. 148
Power supplies	p. 152
Software	p. 156
Accessories	p. 162

Index

Systems p. 10

Systems	p. 10
Telematic services and App	p. 12
TP4-20 - TP4-20 GSM	p. 14
TP8-28 - TP8-28 GSM	p. 24
TP10-42	p. 38
TP8-88	p. 48
TP20-440	p. 58

Videoalarm p. 68

Touch screen video consoles - Video CCTV	p. 70
Touch screen video consoles - Video IP	p. 72
Self-powered PoE switches - Video IP	p. 74

Consoles and control units p. 76

Touch screen consoles	p. 78
Consoles	p. 81
Outdoor keypads	p. 82
Access Point Readers	p. 83
RFID cards	p. 83
Transponder readers	p. 84
Transponders	p. 85
Transponder interfaces and stand-alone readers	p. 85
Stand-alone relay control systems	p. 86

Expansion modules p. 88

Input expansions	p. 90
Output expansions	p. 91
Serial extension modules	p. 92

RSC® technology p. 94

Input expansions	p. 97
Power supplies	p. 98
Dual technology for indoor use	p. 100
Dual technology for outdoor use	p. 102
Passive infrared for indoor use	p. 104
Passive infrared for outdoor use	p. 106
Active infrared for outdoor use	p. 108
Microwave for outdoor use	p. 116
Sirens	p. 118
Self-powered sirens for indoor use	p. 119
Self-powered sirens for outdoor use	p. 120

Wireless p. 122

ASYNC@WL protocol	p. 124
Receiver-transmitter	p. 125
Receiver	p. 125
Control units	p. 125
Magnetic contacts	p. 126
Smoke detectors	p. 126
Passive infrared for indoor use	p. 127
Passive infrared for outdoor use	p. 128
Active infrared for outdoor use	p. 129
Outdoor sirens	p. 129
SYNC@BWL protocol	p. 130
Coordinators	p. 131
Control units	p. 132
Magnetic contacts	p. 133
Passive infrared for indoor use	p. 134
Outdoor sirens	p. 135

Detectors p. 136

Dual technology for indoor use	p. 138
Passive infrared for indoor use	p. 139
Dual technology for outdoor use	p. 142
Passive infrared for outdoor use	p. 144
Active infrared for outdoor use	p. 145
Microwave for outdoor use	p. 146

Sirens p. 148

Sirens for indoor use	p. 150
Sirens for outdoor use	p. 151

Power supplies p. 152

External power supplies	p. 154
Power supplies	p. 155

Software p. 156

Programming	p. 158
Remote management	p. 158
Remote management with TCP/IP	p. 159
Monitoring	p. 159
License options	p. 160
Services	p. 160
Remote management	p. 161

Accessories p. 162

Batteries	p. 164
Flame-retardant cables	p. 165
Class 2 cables	p. 165
Class 4 cables	p. 166
Class 2 twisted-pair cables	p. 166
Class 4 twisted-pair cables	p. 166
Class 2 halogen-free cables	p. 166
Class 2 halogen-free twisted-pair cables	p. 166
Additional relay boards	p. 167
Reed contacts - Security grade 3	p. 167
Reed contacts - Security grade 2	p. 167
Reed contacts - Security grade 1	p. 168
Mechanical rod and rope contacts	p. 168
Flood detectors	p. 168
Vibration detectors	p. 169
Panic buttons	p. 169
Optical repeaters	p. 169
Interfaces	p. 169
Junction boxes	p. 169

Merchandising p. 170

Demo-cases	p. 172
Display equipment	p. 173
Apparel	p. 174
Deterrent signs and labels	p. 174

Iconography p. 175

General terms of sale and delivery p. 178

SYSTEMS

The continuous evolution of the Tecnoalarm systems, the great attention the company pays to the sector's standards as well as the implementation of ever new and sophisticated technologies guarantee the highest protection and security standards. To clearly display the systems' rapid technological progress and to provide a useful instrument for the comparison of the systems in matters of their technological content, Tecnoalarm introduces the "technical evaluation index".

Technical evaluation index
The technical evaluation is made on the basis of the system's equipment taking into account, in particular, three categories, the serial ports, the communication vectors and the Videoalarm devices and telematic services. The evaluation is made using the letters A to C and considers both the quantity and technical merit of the implemented equipment. The highest rating A is assigned for a comprehensive and technically advanced equipment.

Serial ports
According to fittings, up to three serial ports with different specializations permit the connection of peripheral devices for system management, detection and alarm notification.

Communication vectors
Both integrated and optional communication vectors, which are classified as ATE2 or ATE4 depending on the protocols used, permit the transmission of the events in the formats PSTN, GSM-GPRS, IP and GSM.

Videoalarm and telematic services
According to fittings, it is possible to implement the Videoalarm devices and the exclusive telematic services DDNS Tecnoalarm, SNTP and Mail Server Tecnoalarm, as well as manage the systems with the app myTecnoalarm.

Technical evaluation index	Serial ports			Communication vectors				Videoalarm/Telematic Services			
	SERIAL BUS	SENSOR BUS	SIREN BUS	PSTN	GSM-GPRS	IP	GSM-EXT	VIDEOALARM IP	VIDEOALARM CCTV	DDNS Tecnoalarm	myTecnoalarm
TP4-20				ATE2		ATE2	ATE2				
	C			C				C			
TP4-20 GSM					ATE2	ATE2					
	C			C				C			
TP8-28				ATE2		ATE4	ATE2				
	A			B				B			
TP8-28 GSM					ATE4	ATE4	ATE2				
	A			B				B			
TP10-42				ATE2	ATE4	ATE4	ATE2				
	A			A				A			
TP8-88				ATE2	ATE4	ATE4	ATE2				
	A			A				A			
TP20-440				ATE2	ATE4	ATE4	ATE2				
	A			A				A			

ATE (Alarm Transmission Equipment) - A: excellent - B: good - C: satisfactory

TP4-20
TP4-20 GSM
TP8-28
TP8-28 GSM
TP10-42
TP8-88
TP20-440
Tecnoalarm

Telematic Services

Tecnoalarm telematic services
The new generation systems are compatible with the exclusive telematic services DDNS Tecnoalarm, SNTP and Mail Server Tecnoalarm.
These services are managed automatically by a dedicated server and are provided free-of-charge to the customers of Tecnoalarm in order to simplify and protect the Ethernet connection of their systems.

DDNS Tecnoalarm
The system's name and IP address are automatically recorded on the Tecnoalarm DDNS server and transmitted to the internet. Whenever the system registers that its IP address has changed, it automatically communicates the new address to the DDNS server which updates the registered IP address and transmits the information to the DNS servers on the internet.

SNTP
The system's internal clock is automatically synchronized with an NTP server which uses the universal coordinated time (UTC).

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.

App myTecnoalarm

myTecnoalarm

myTecnoalarm
The app for iPhone and Android allows to interact with the Tecnoalarm burglar alarm systems in a natural and intuitive way.
The communication between the app and the system is established in real time on demand. The user can manage the system's programs and remote controls, check their status and query the stored events by a few simple operations on his iPhone or smartphone.

Security
The communication protocol provides the encryption of the data and a 2-factor authentication: passphrase and access code.

Management of the programs
Icons simplify the identification of the programs and the program status check. Arming, disarming and partset becomes rapid and intuitive.

Management of the remote controls
The app permits an easy and intuitive management of the home automation.

Event log
The user can download the event log of the system and scroll the events.

Settings
This menu allows the user to customize the icons and program an alphanumeric description of the programs and remote controls.

The app myTecnoalarm is available for iPhone and Android and can be downloaded from the corresponding app store.

Available on the App Store

TP4-20
TP4-20 GSM

TP4-20 - TP4-20 GSM

Remotely manageable serial control panel
with 4 to 20 hard-wired/wireless zones

TP4-20 - TP4-20 GSM

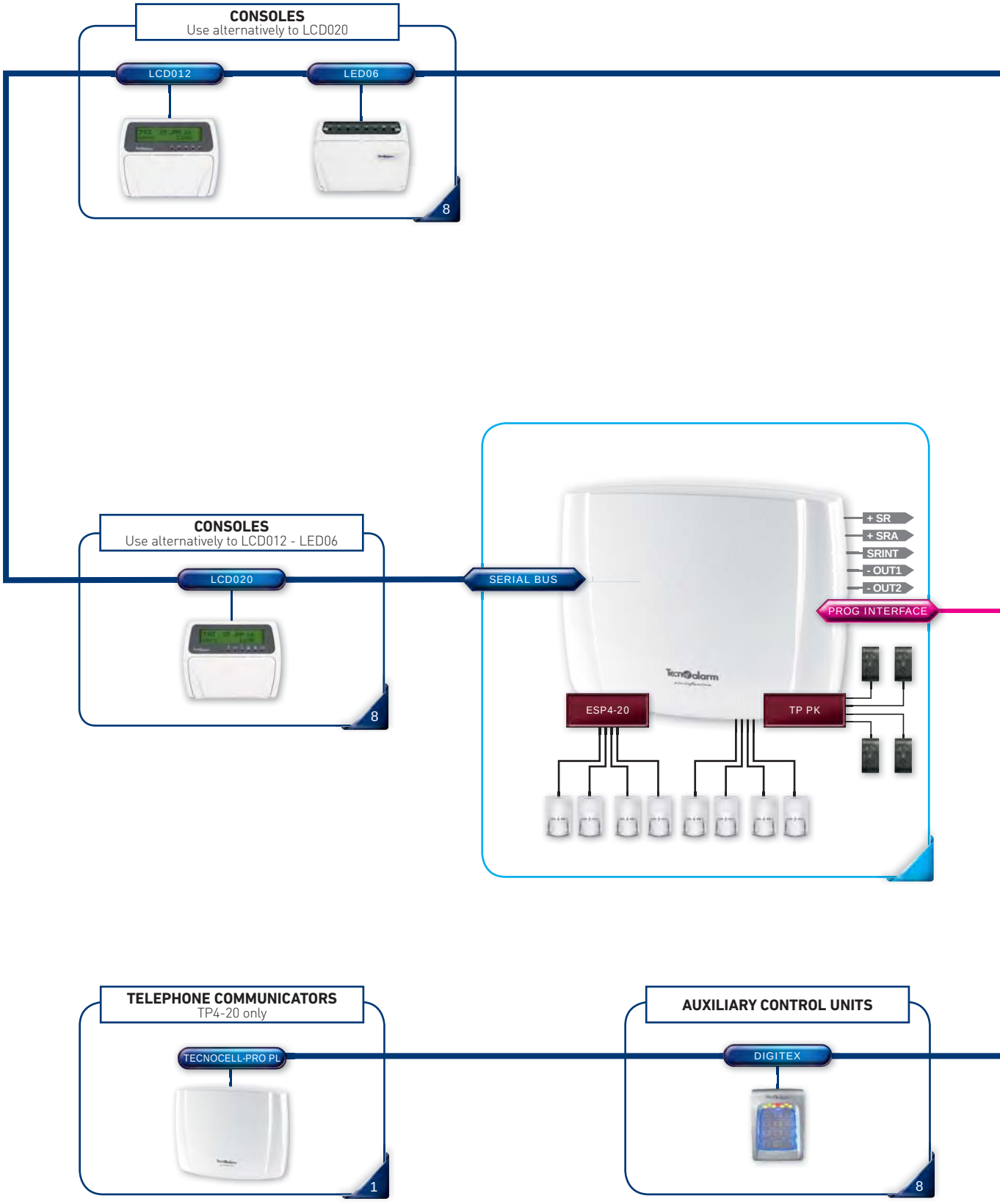
INPUTS	CPU	ESP4-20	SPEED 8 STD	SPEED 4	SPEED 8	SPEED ALM8 PL
CONVENTIONAL*	4	4 (2 Zone Bus)	8	4	8	8
ZONE BUS	-		-			

** 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.*

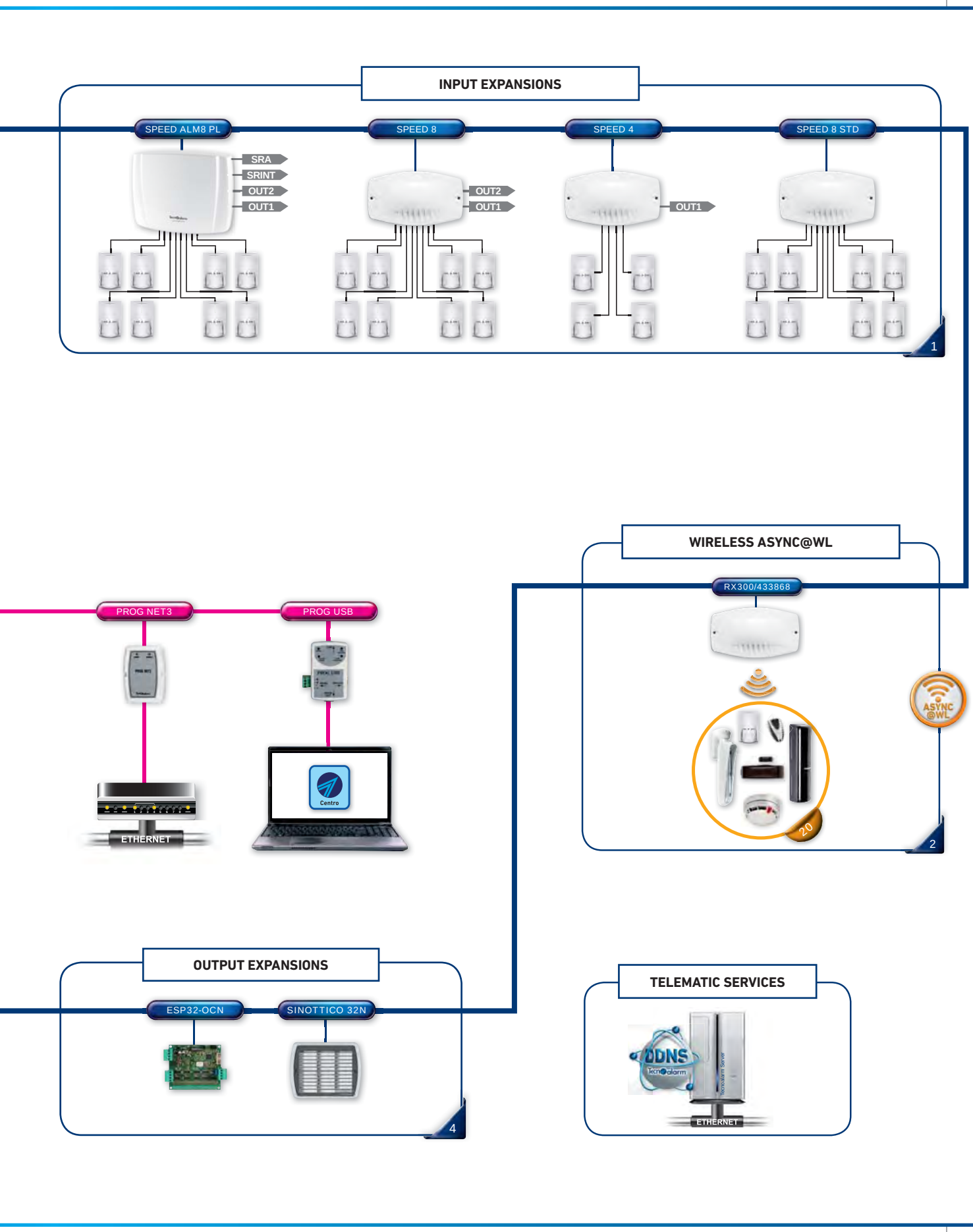
Technical evaluation index	Serial ports			Communication vectors				Videoalarm/Telematic Services			
	SERIAL BUS	SENSOR BUS	SIREN BUS	PSTN	GSM	IP	GSM-EXT	VIDEOALARM IP	VIDEOALARM CCTV	DDNS	myTecnoalarm
TP4-20				ATE2		ATE2	ATE2				
	C			C				C			
TP4-20 GSM					ATE2	ATE2					
	C			C				C			
TP8-28				ATE2		ATE4	ATE2				
	A			B				B			
TP8-28 GSM					ATE4	ATE4	ATE2				
	A			B				B			
TP10-42				ATE2	ATE4	ATE4	ATE2				
	A			A				A			
TP8-88				ATE2	ATE4	ATE4	ATE2				
	A			A				A			
TP20-440				ATE2	ATE4	ATE4	ATE2				
	A			A				A			

ATE (Alarm Transmission Equipment) - A: excellent - B: good - C: satisfactory

TP4-20 - TP4-20 GSM



The label indicates the number of connectable devices per type.


INPUT EXPANSIONS
SPEED ALM8 PL
SRA
SRINT
OUT2
OUT1
SPEED 8
OUT2
OUT1
SPEED 4
OUT1
SPEED 8 STD
1
WIRELESS ASYNC@WL
RX300/433868
ASYNC @WL
20
2
PROG NET3
PROG USB
Centro
ETHERNET
OUTPUT EXPANSIONS
ESP32-OCN
SINOTTICO 32N
4
TELEMATIC SERVICES
DDNS
Tecnoalarm
Tecnoalarm Server
ETHERNET

TP4-20 - TP4-20 GSM

TP4-20

- Management of max. 20 wireless zones (using 16 of which alternatively to the hard-wired zones)
- 1 tamper input
- 4 zone inputs for conventional detectors
- 1 RS485 port for conventional peripheral devices
- 1 alarm output for indoor siren
- 1 alarm output for outdoor siren
- 2 programmable logic outputs
- On-board PSTN interface: 8 channels with 2 telephone numbers each
- Event notification in the formats: speech, SMS, Ring, DTMF, FSK and data
- Communication vectors: PSTN (on-board), GSM and TCP/IP (optional)
- Voice synthesis
- 4 programs
- 2 remote controls
- 4 timers
- 2 access periods
- 20 access codes
- 16 keys/transponders/RFID cards
- 16 wireless keys
- Digital control of the radio range and interferences
- Event buffer with a capacity of 512 events
- Battery test with automatic disconnection in case of failure
- 1.1A linear power supply

N.B. The control panel TP4-20 without voice synthesis software module is only available in Italy.

TP4-20 GSM

As TP4-20 but with on-board GSM interface

Standard equipment	RDV; ZONES 4 UP TO 20; 4 PROGRAMS MANAGED; 2 REMOTE CONTROLS; PSTN VERSION TP4-20; GSM VERSION TP4-20 GSM
Expansions	WIRELESS; IP; GSM-EXT
Control modes	20 CODES; 16 RFID KEYS; 16 WL KEYS
Automation	2 ACCESS PERIODS 08:00 START 20:00 STOP; 4 TIMERS 00:00; DDNS
Software options/Compatibility with monitoring software	TECNO MONITOR
Ports	TTL INTERFACE

TP4-20 • TP4-20 GSM - Technical and functional specifications

Zones	Total logic zones	**20**
	CPU hard-wired zones	**4 conventional**
	Total hard-wired zones	**16**
	Total wireless zones	**20**
Outputs	CPU outputs	**3 + 2 programmable**
System features	RS485 serial bus	**1**
	Event buffer capacity	**512 events**
Programs and access management	Programs	**4**
	Codes	**20**
	Keys/transponders/RFID	**16**
	Wireless keys	**16**
Automation	Timers	**4**
	Access periods	**2**
	Remote controls	**2**
	TCS (test call with TCP/IP)	✓
Telephone section TP4-20	Channels	**8**
	PSTN vector	**On-board**
	GSM vector (optional)	**TECNOCELL-PRO PL**
	IP vector (optional)	**PROG NET3**
	Transmittable events	**86**
	Telephone numbers/ IP addresses	**2 per channel (max. 16 digits)**
	Call event queue	**16**
	Communication protocols	**144**

Telephone section TP4-20 GSM	Channels	**8**
	GSM vector	**On-board**
	IP vector (optional)	**PROG NET3**
	Transmittable events	**86**
	Telephone numbers/ IP addresses	**2 per channel (max. 16 digits)**
	Call event queue	**16**
	Communication protocols	**21**
Serial expansions	Hard-wired input expansions	**1**
	Wireless expansions	**2**
	Consoles	**8**
	Auxiliary control units	**4**
	Output expansions	**4**
	GSM telephone communicator (TP4-20 only)	**1**
Electrical specifications	Operating voltage	**230V AC +/-10% 50Hz**
	CPU board consumption TP4-20	**145mA @ 13.8V DC**
	CPU board consumption TP4-20 GSM	**130mA @ 13.8V DC**
	Power supply	**1.1A @ 13.8V DC**
	Battery	**12V/7Ah**
Physical specifications	Environmental class	**II**
	Casing	**ABS**
	Dimensions (L x H x D)	**350 x 285 x 93mm**
	Weight TP4-20 (w/o battery)	**2.6kg**
	Weight TP4-20 GSM (w/o battery)	**2.7kg**
	Operating temperature	**-10°C...+55°C**
	Humidity (w/o condensation)	**93%**
Conformity	Directive	**R&TTE 1999/05/EC**

TP4-20 - TP4-20 GSM

Internal expansions and interfaces

ESP4-20

Approved for certified systems

ZONE BUS DETECTORS | 4 CONVENTIONAL DETECTORS

Mounting position	A	B	C

Expansion module with 4 parallel inputs for the connection of conventional detectors and Zone Bus detectors (only the first two inputs)

Item no. F127TP420ESP

TP PK

KEY INTERFACE | 4 READERS

Mounting position	A	B	C

Transponder interface
Up to 4 readers can be connected in parallel.

Item no. F127TP6PK

PROG NET3

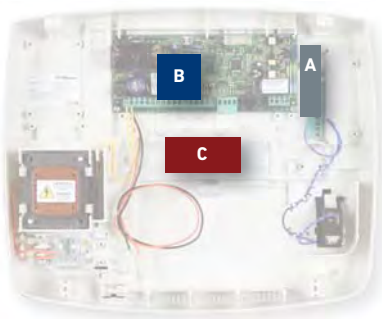
IP

Mounting position	A	B	C

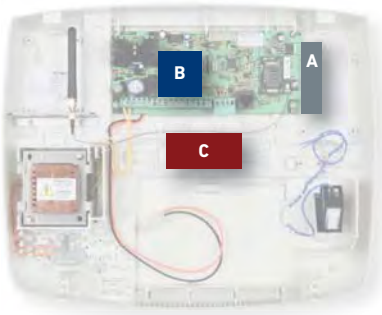
Ethernet interface
The interface implements the IP vector and permits remote management with TCP/IP.
Dimensions (L x H x D) 67 x 95 x 31mm - Gray color

Item no. F130PROGNET3

MOUNTING POSITIONS



TP4-20



TP4-20 GSM

MODELS			LANGUAGE VOCABULARY	PSTN	GSM	IP	POWER SUPPLY	ABS BOX
Model	Item no.							
TP4-20	Only in Italy			✓		Optional	1.1A	✓
TP4-20/V	F101TP420/V-UK		✓	✓		Optional	1.1A	✓
TP4-20 GSM	F101TP420G/V-UK		✓		✓	Optional	1.1A	✓

OPTIONS		
Option	Item no.	
VOCABOLARIO	F127TP420VOC	Voice synthesis software module

VECTORS TP4-20			DDNS	APP	RDV®	SMS	Remote controls	Remote management	Monitoring
Vector	Device	Class							
PSTN	ON-BOARD	ATE2			✓		✓	✓	✓
GSM-EXT*	TECNOCELL-PRO PL	ATE2						✓	✓
IP*	PROG NET3	ATE2	✓					✓	✓

*** The vectors GSM-EXT and IP are optional and require the installation of external interfaces.**

VECTORS TP4-20 GSM			DDNS	APP	RDV®	SMS	Remote controls	Remote management	Monitoring
Vector	Device	Class							
GSM	ON-BOARD	ATE2			✓	✓	✓	✓	✓
IP*	PROG NET3	ATE2	✓					✓	✓

*** The IP vector is optional and requires the installation of an external interface.**

TP4-20 GSM - Accessories

GSM ANTENNA EXTENSION

4m extension cord for the connection of the antenna to the GSM-GPRS module

Item no. C126PROLANTENNA

TP8-28
TP8-28 GSM

TP8-28 • TP8-28 GSM

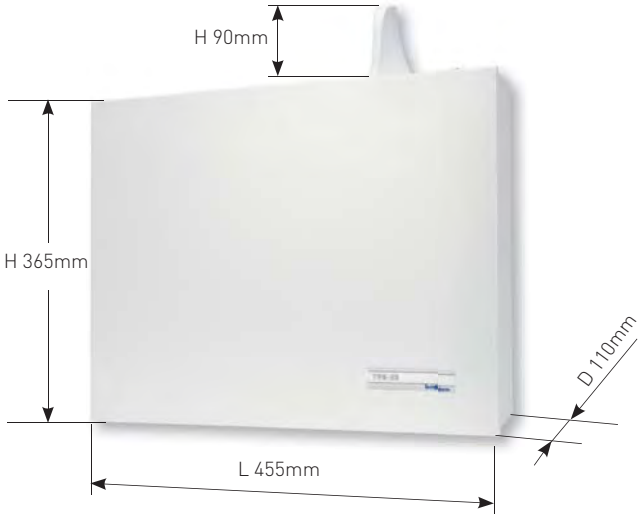
Remotely manageable serial control panel
with 8 to 28 hard-wired/wireless zones

EN 50131-1 COMPLIANT

PSC

DDNS Tecnoalarm

TP8-28 - TP8-28 GSM



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
CONVENTIONAL*	2	4	8	4	4	8	8	4	-	-
ZONE BUS	-		-							
SENSOR BUS	6	-	-	-	-	-	-	4	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.*

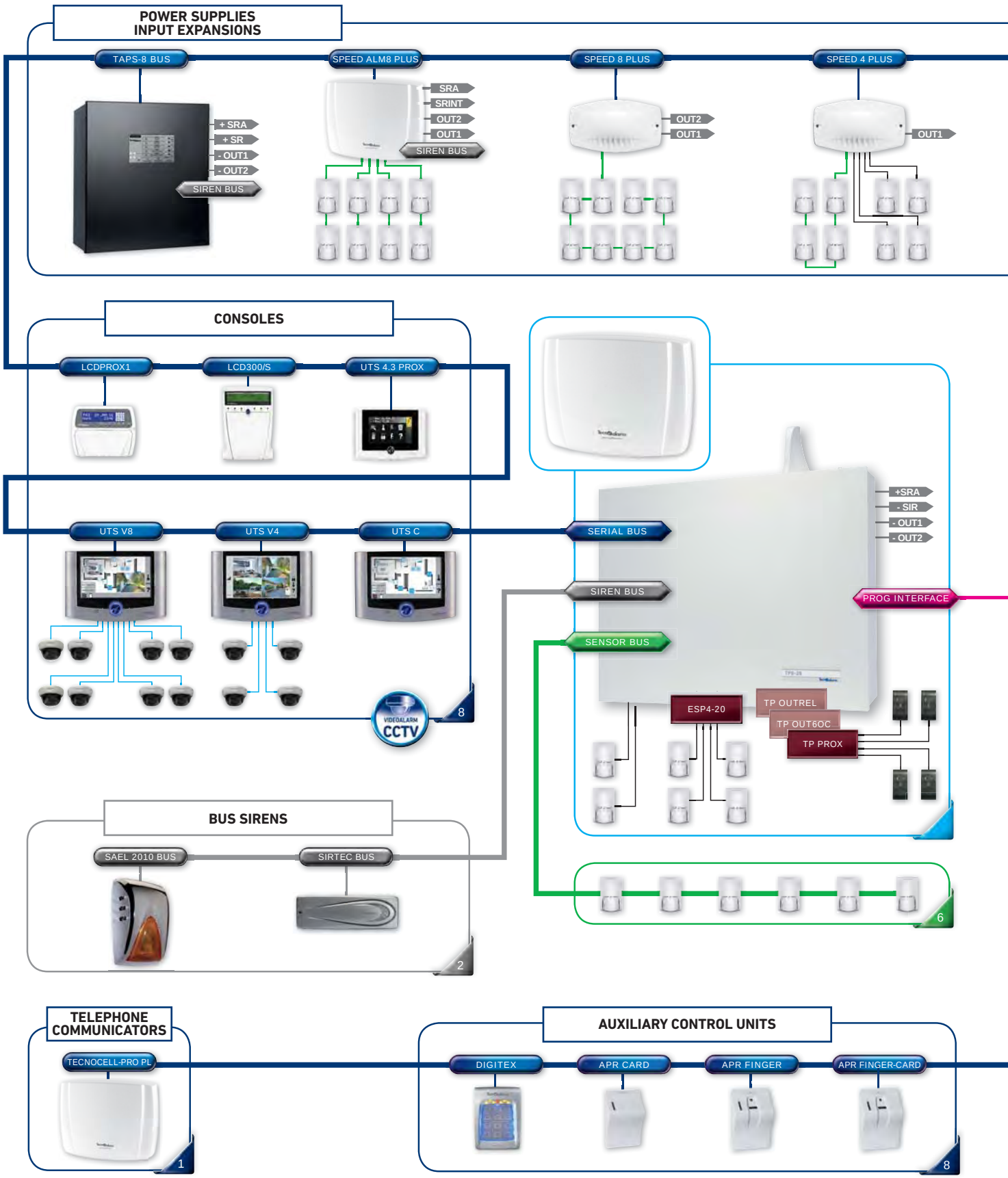
Videoalarm

	Cameras	Recording	Viewing
UTS V4	4	-	1/4
UTS V8	8	-	1/4

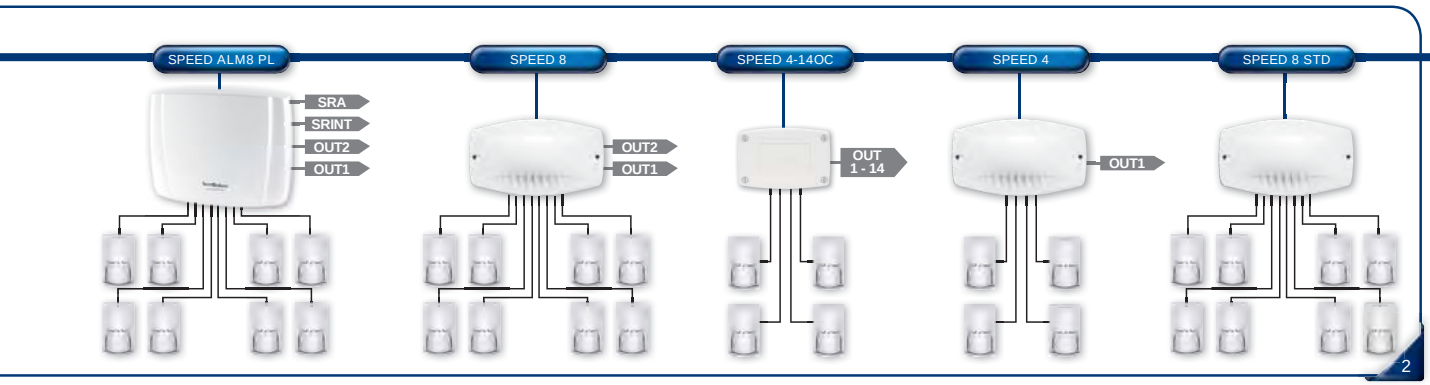
Technical evaluation index	Serial ports			Communication vectors				Videoalarm/Telematic Services			
	SERIAL BUS	SENSOR BUS	SIREN BUS	PSTN	GSM-GPRS	IP	GSM-EXT	VIDEOALARM IP	VIDEOALARM CCTV	DDNS	myTecnoalarm
TP4-20				ATE2		ATE2	ATE2				
	C			C				C			
TP4-20 GSM					ATE2	ATE2					
	C			C				C			
TP8-28				ATE2		ATE4	ATE2				
	A			B				B			
TP8-28 GSM					ATE4	ATE4	ATE2				
	A			B				B			
TP10-42				ATE2	ATE4	ATE4	ATE2				
	A			A				A			
TP8-88				ATE2	ATE4	ATE4	ATE2				
	A			A				A			
TP20-440				ATE2	ATE4	ATE4	ATE2				
	A			A				A			

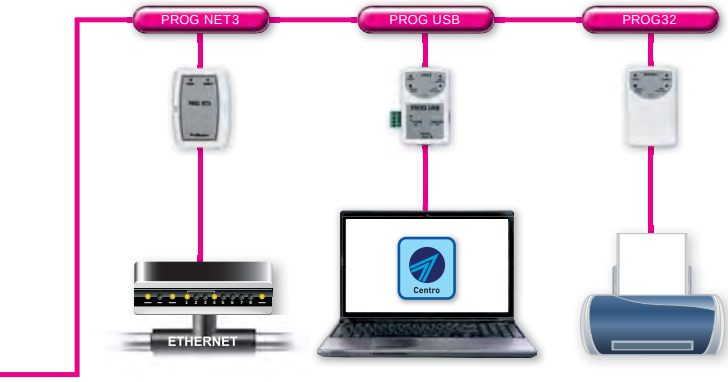
ATE (Alarm Transmission Equipment) - A: excellent - B: good - C: satisfactory

TP8-28 - TP8-28 GSM



The label indicates the number of connectable devices per type.

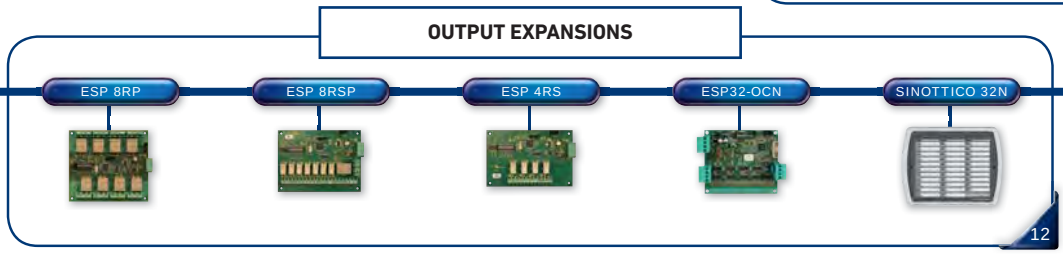

SPEED ALM8 PL
SRA
SRINT
OUT2
OUT1
SPEED 8
OUT2
OUT1
SPEED 4-14OC
OUT
1 - 14
SPEED 4
OUT1
SPEED 8 STD
2


PROG NET3
PROG USB
PROG32
ETHERNET
Centro

WIRELESS SYNC@BWL
Use alternatively to RX300/433868 - RTX200/433868
RTX500 BWL
RTX500S BWL
ASYNC @WL
SYNC @BWL
N
28
2
108
1

WIRELESS ASYNC@WL
Use alternatively to RTX500 BWL - RTX500S BWL
RX300/433868
RTX200/433868
ASYNC @WL
28
2+2
2

TELEMATIC SERVICES
DDNS
Tecnoalarm
Tecnoalarm Server
ETHERNET
myTecnoalarm


OUTPUT EXPANSIONS
ESP 8RP
ESP 8RSP
ESP 4RS
ESP32-OCN
SINOTTICO 32N
12

TP8-28

TP8-28

- Management of max. 28 hard-wired zones
- Management of max. 28 wireless zones (used alternatively to the hard-wired zones)
- 1 tamper input
- 2 zone inputs for conventional detectors
- 1 Sensor Bus port for 6 RSC® peripheral devices
- 1 RS485 port for conventional peripheral devices (optional)
- 1 Siren Bus port for 2 RSC® sirens
- 1 alarm output for indoor siren
- 2 programmable logic outputs
- On-board PSTN interface: 8 channels with 2 telephone numbers each
- Event notification in the formats: speech, SMS, Ring, DTMF, FSK and data
- Communication vectors: PSTN (on-board), GSM and TCP/IP (optional)
- Voice synthesis (optional)
- Management of multiuser systems with common zones
- 8 programs
- 8 remote controls
- 6 timers
- 4 access periods
- 6 cyclic timers
- Biennial or perpetual calendar
- Management of biometric finger print and RFID card readers
- 120 access codes
- 100 finger prints
- 100 transponders/RFID cards
- 80 wireless keys
- Digital control of the radio range and interferences
- Programmable coincidence function
- Event buffer with a capacity of 1,500 events
- 14.4V power supply output for battery recharge
- Battery test with automatic disconnection in case of failure
- 2A linear power supply
- 4 fasce orarie di accesso
- Certified to EN 50131

Standard equipment	RSC, RJV, ZONES 8 UP TO 28, 8 PROGRAMS MANAGED, 8 REMOTE CONTROLS, PSTN
Expansions	VIDEOALARM CCTV, WIRELESS, IP, GSM-EXT
Control modes	120 CODES, 100 RFID KEYS, 80 WL KEYS, FINGER PRINT MANAGEMENT, RFID CARD MANAGEMENT, myTecnoalarm
Automation	4 ACCESS PERIODS 08:00 20:00 START STOP, 6 TIMERS 00:00, 6 CYCLIC TIMERS 00:00, CALENDAR 2Y/∞, DDNS Tecnoalarm
Software options/Compatibility with monitoring software	ADVANCED PROGRAMMING, TECNO MONITOR
Ports	TTL INTERFACE

TP8-28 - Technical and functional specifications

Zones	Total logic zones	**28**
	CPU hard-wired zones	**2 conventional**
		6 Sensor Bus
	Total hard-wired zones	**28**
	Total wireless zones	**28**
Outputs	CPU outputs	**4 programmable**
	Sirens	**4**
System features	RS485 serial bus	**3**
	Voice synthesis	**Optional**
	Event buffer capacity	**1,500 events**
Programs and access management	Programs	**8**
	Codes	**120**
	Finger prints	**100**
	Transponders/RFID	**100**
	Wireless keys	**80**
Automation	Timers	**6**
	Access periods	**4**
	Calendar	**Biennial or perpetual**
	Remote controls	**8**
	Cyclic timers	**6**
	TCS (test call with TCP/IP)	✓
Telephone section	Channels	**8**
	PSTN vector	**On-board**
	GSM vector (optional)	**TECNOCELL-PRO PL**
	IP vector (optional)	**PROG NET3**
	Transmittable events	**129**
	Telephone numbers/ IP addresses	**2 per channel (max. 24 digits)**
	Call event queue	**32**
	Communication protocols	**160**
Videoalarm	Videoalarm CCTV	✓

Serial expansions	Hard-wired input expansions	**2**
	Wireless expansions	**2**
	Consoles	**8**
	Auxiliary control units	**8**
	Output expansions	**12**
	GSM telephone communicator	**1**
	Bus sirens	**2**
	Wireless sirens	**2**
	Wireless consoles	**2**
Advanced programming	Actions	**128**
	Timers	**64**
	Counters	**16**
	Telephone index	**6 numbers**
	Reserved output expansions	**4**
Accessory management	App (iPhone + Android)	✓
	Printer management	✓
Electrical specifications	Operating voltage	**230V AC +/- 10% 50Hz**
	CPU board consumption	**150mA @ 13.8V DC**
	Power supply	**2A @ 14.4V DC**
	Battery (ABS casing)	**12V/7Ah**
	Battery (metal casing)	**12V/18Ah**
Physical specifications	Environmental class	**II**
	Dimensions ABS casing (L x H x D)	**350 x 285 x 93mm**
	Dimensions metal casing (L x H x D)	**455 x 365 x 110mm**
	Weight ABS casing (w/o battery)	**2.7kg**
	Weight metal casing (w/o battery)	**5.6kg**
	Operating temperature	**-10°C...+55°C**
	Humidity (w/o condensation)	**93%**
Conformity	Standards	**EN 50131-1 EN 50131-3 EN 50136-2-1**
	Security grade TP8-28 EN - TP8-28 EN MET	**2**
	Notified body	**IMQ**

TP8-28

Internal expansions and interfaces

ESP4-20

Approved for certified systems

ZONE BUS DETECTORS | 4 CONVENTIONAL DETECTORS

Mounting position	A	B	C	D

Expansion module with 4 parallel inputs for the connection of conventional detectors and Zone Bus detectors (only the first two inputs)

Item no. F127TP420ESP

TP PROX

Approved for certified systems

KEY INTERFACE | 4 READERS

Mounting position	A	B	C	D

Transponder interface
Up to 4 ATPROX readers can be connected in parallel.

Item no. F127TPPROX

TP OUT6OC

Approved for certified systems

6 OUTPUTS

Mounting position	A	B	C	D

Expansion module with 6 open-collector outputs which can be freely associated to the logic outputs of the system

Item no. F127TPOUT6OC

TP OUTREL

Approved for certified systems

1 OUTPUT

Mounting position	A	B	C	D

Expansion module providing 1 relay output with potential-free contact
Theoutput is programmable and can be freely associated to the logic outputs of the system.

Item no. F127TPOUTREL

TP BUSVOC

Approved for certified systems

SERIAL BUS CONNECTION | VOICE SYNTHESIS

Mounting position	A	B	C	D

Expansion module with 1 RS485 port and voice channel (S wire) for the connection of serial expansions

Item no. F127TPBUSVOC

TP BUS

Approved for certified systems

SERIAL BUS CONNECTION

Mounting position	A	B	C	D

Expansion module with 1 RS485 port for the connection of serial expansions

Item no. F127TPBUS

PROG NET3

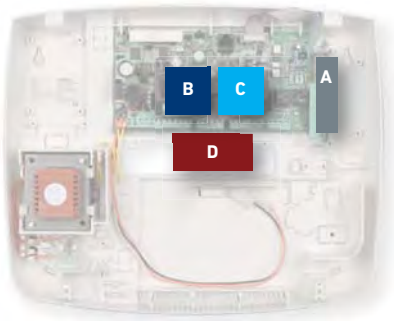
IP

Mounting position	A	B	C	D

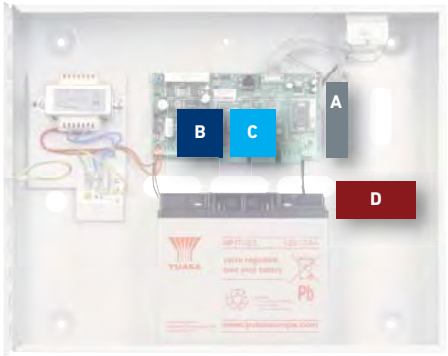
Ethernet-Interface
The interface implements the IP vector and permits remote management with TCP/IP.
Dimensions (L x H x D) 67 x 95 x 31mm - Gray color

Item no. F130PROGNET3

MOUNTING POSITIONS



TP8-28



TP8-28 MET

MODELS

Model	Item no.	CERTIFIED EN 50131-1 EN 50131-3 EN 50136-2-1	SERIAL BUS CONNECTION	PSTN	IP	ADVANCED PROGRAMMING	POWER SUPPLY	ABS BOX	METAL BOX
TP8-28	F101T28-UK		Optional	✓	Optional	Optional	2A	✓	
TP8-28 EN	F101T28EN-UK	Security grade 2	Optional	✓			2A	✓	
TP8-28 MET	F101T28M-UK		Optional	✓	Optional	Optional	2A		✓
TP8-28 MET	F101T28ENM/V-UK	Security grade 2	Optional	✓			2A		✓

OPTIONS

Option	Device	
ADVANCED PROGRAMMING	F127T28/AV	Advanced programming software module

VECTORS

Vector	Device	Class	DDNS	APP	RDV®	SMS	Remote controls	Remote management	Monitoring
PSTN	ON-BOARD	ATE2			✓		✓	✓	✓
GSM-EXT*	TECNOCELL-PRO PL	ATE2			✓			✓	✓
IP*	PROG NET3	ATE2/4	✓	✓				✓	✓

*** The vectors GSM-EXT and IP are optional and require the installation of external interfaces.**
Class - The class defines the performance criteria of the alarm transmission equipment (ATE) for alarm notification. In compliance with the valid standards, the criteria of performance are divided into six classes from ATE1 to ATE6. The system's vectors are classified as ATE2 or ATE4 according to the communication protocols used. The class ATE4 requires the use of encrypted protocols. The IP vector has been certified class ATE4 on the basis of internal tests executed by Tecnoalarm.

TP8-28 GSM

TP8-28 GSM

- Management of max. 28 hard-wired zones
- Management of max. 28 wireless zones (used alternatively to the hard-wired zones)
- 1 tamper input
- 2 zone inputs for conventional detectors
- 1 Sensor Bus port for 6 RSC® peripheral devices
- 1 RS485 port for conventional peripheral devices
- 1 Siren Bus port for 2 RSC® sirens
- 1 alarm output for indoor siren
- 1 alarm output for outdoor siren
- 2 programmable logic outputs
- On-board GSM-GPRS interface: 8 channels with 2 telephone numbers each
- Event notification in the formats: speech, SMS, Ring, DTMF, FSK and data
- Communication vectors: GSM-GPRS (on-board), GSM and TCP/IP (optional)
- GSM network cell scanner function
- Jammer detector function
- Voice synthesis
- Management of multiuser systems with common zones
- 8 programs
- 8 remote controls
- 6 timers
- 4 access periods
- 6 cyclic timers
- Biennial or perpetual calendar
- Management of biometric finger print and RFID card readers
- 120 access codes
- 100 finger prints
- 100 transponders/RFID cards
- 80 wireless keys
- Digital control of the radio range and interferences
- Programmable coincidence function
- Event buffer with a capacity of 1,500 events
- 14.4V power supply output for battery recharge
- Battery test with automatic disconnection in case of failure
- 2A linear power supply
- Certified to EN 50131

Standard equipment	RSC, RIV, ZONES 8 UP TO 28, 8 PROGRAMS MANAGED, 8 REMOTE CONTROLS, GSM-GPRS, VOCABULARY
Expansions	VIDEOALARM CCTV, WIRELESS, IP, GSM-EXT
Control modes	120 CODES, 100 RFID KEYS, 80 WL KEYS, FINGER PRINT MANAGEMENT, RFID CARD MANAGEMENT, myTecnoalarm
Automation	4 ACCESS PERIODS 08:00 START 20:00 STOP, 6 TIMERS 00:00, 6 CYCLIC TIMERS 00:00, CALENDAR 2Y/∞, DDNS Tecnoalarm
Software options/Compatibility with monitoring software	ADVANCED PROGRAMMING, TECNO MONITOR
Ports	TTL INTERFACE

TP8-28 GSM - Technical and functional specifications

Zones	Total logic zones	**28**
	CPU hard-wired zones	**2 conventional**
		6 Sensor Bus
	Total hard-wired zones	**28**
	Total wireless zones	**28**
Outputs	CPU outputs	**4 programmable**
	Sirens	**4**
System features	RS485 serial bus	**3**
	Voice synthesis	✓
	Event buffer capacity	**1,500 events**
Programs access management	Programs	**8**
	Codes	**120**
	Finger prints	**100**
	Transponders/RFID	**100**
	Wireless keys	**80**
Automation	Timers	**6**
	Access periods	**4**
	Calendar	**Biennial or perpetual**
	Remote controls	**8**
	Cyclic timers	**6**
	TCS (test call with TCP/IP)	✓
Telephone section	Channels	**8**
	GSM-GPRS vector	**On-board**
	GSM vector (optional)	**TECNOCELL-PRO PL**
	IP vector (optional)	**PROG NET3**
	Transmittable events	**129**
	Telephone numbers/ IP addresses	**2 per channel (max. 24 digits)**
	Call event queue	**32**
	Communication protocols	**67**
Videoalarm	CCTV	✓

Serial expansions	Hard-wired input expansions	**2**
	Wireless expansions	**2**
	Consoles	**8**
	Auxiliary control units	**8**
	Output expansions	**12**
	GSM telephone communicator	**1**
	Bus sirens	**2**
	Wireless sirens	**2**
	Wireless consoles	**2**
Advanced programming	Actions	**128**
	Timers	**64**
	Counters	**16**
	Telephone index	**6 numbers**
	Reserved output expansions	**4**
Accessory management	App (iPhone + Android)	✓
	Printer management	✓
Electrical specifications	Operating voltage	**230V AC +/- 10% 50Hz**
	CPU board consumption	**220mA @ 13.8V DC**
	Power supply	**2A @ 14.4V DC**
	Battery (ABS casing)	**12V/7Ah**
	Battery (metal casing)	**12V/18Ah**
Physical specifications	Environmental class	**II**
	Dimensions ABS casing (L x H x D)	**350 x 285 x 93mm**
	Dimensions metal casing (L x H x D) (w/o antenna)	**455 x 365 x 110mm**
	Antenna height	**90mm**
	Weight ABS casing (w/o battery)	**2.8kg**
	Weight metal casing (w/o battery)	**5.7kg**
	Operating temperature	**-10°C...+55°C**
	Humidity (w/o condensation)	**93%**
Conformity	Standards	**EN 50131-1 EN 50131-3 EN 50136-2-1**
	Security grade TP8-28 GSM EN	**2**
	Security grade TP8-28 GSM EN MET	**3**
	Notified body	**IMQ**

TP8-28 GSM

Internal expansions and interfaces

ESP4-20

Approved for certified systems

ZONE BUS DETECTORS | 4 CONVENTIONAL DETECTORS

Mounting position	A	B	C	D

Expansion module with 4 parallel inputs for the connection of conventional detectors and Zone Bus detectors (only the first two inputs)

Item no. F127TP420ESP

TP PROX

Approved for certified systems

KEY INTERFACE | 4 READERS

Mounting position	A	B	C	D

Transponder interface
Up to 4 ATPROX readers can be connected in parallel.

Item no. F127TPPROX

TP OUT6OC

Approved for certified systems

6 OUTPUTS

Mounting position	A	B	C	D

Expansion module with 6 open-collector outputs which can be freely associated to the logic outputs of the system

Item no. F127TPOUT6OC

TP OUTREL

Approved for certified systems

1 OUTPUT

Mounting position	A	B	C	D

Expansion module providing 1 relay output with potential-free contact
The output is programmable and can be freely associated to the logic outputs of the system.

Item no. F127TPOUTREL

PROG NET3

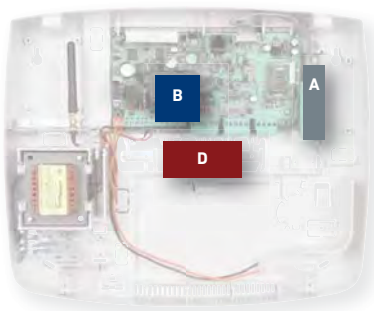
IP

Mounting position	A	B	C	D

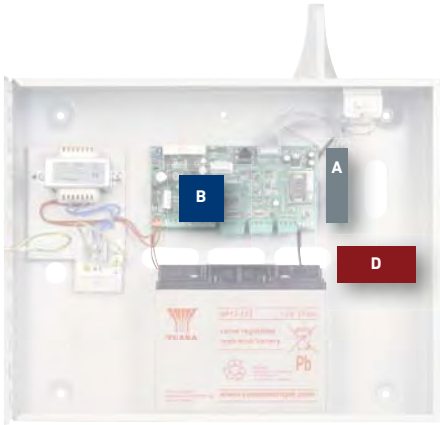
Ethernet-Interface
The interface implements the IP vector and permits remote management with TCP/IP.
Dimensions (L x H x D) 67 x 95 x 31mm - Gray color

Item no. F130PROGNET3

MOUNTING POSITIONS



TP8-28 GSM



TP8-28 GSM MET

MODELS		CERTIFIED EN 50131-1 EN 50131-3 EN 50136-2-1	SERIAL BUS CONNECTION	GSM-GPRS	IP	ADVANCED PROGRAMMING	POWER SUPPLY	ABS BOX	METAL BOX
Model	Item no.								
TP8-28 GSM	F101T28G/V-UK		✓	✓	Optional	Optional	2A	✓	
TP8-28 GSM EN	F101T28GEN/V-UK	Security grade 2	✓	✓			2A	✓	
TP8-28 GSM MET	F101T28G/VM-UK		✓	✓	Optional	Optional	2A		✓
TP8-28 GSM EN MET	F101T28GE/VM-UK	Security grade 3	✓	✓			2A		✓

OPTIONS		
Option	Item no.	
ADVANCED PROGRAMMING	F127T28/AV	Advanced programming software module

VECTORS			DDNS	APP	RDV®	SMS	Remote controls	Remote management	Monitoring
Vector	Device	Class							
GSM-GPRS	ON-BOARD	ATE2/4			✓	✓	✓	✓	✓
GSM-EXT*	TECNOCELL-PRO PL	ATE2			✓			✓	✓
IP*	PROG NET3	ATE2/4	✓	✓				✓	✓

*** The vectors GSM-EXT and IP are optional and require the installation of external interfaces.**
Class - The class defines the performance criteria of the alarm transmission equipment (ATE) for alarm notification. In compliance with the valid standards, the criteria of performance are divided into six classes from ATE1 to ATE6. The system's vectors are classified as ATE2 or ATE4 according to the communication protocols used. The class ATE4 requires the use of encrypted protocols. The IP vector has been certified class ATE4 on the basis of internal tests executed by Tecnoalarm.

TP8-28 GSM - Accessories

GSM ANTENNA EXTENSION

4m extension cord for the connection of the antenna to the GSM-GPRS module

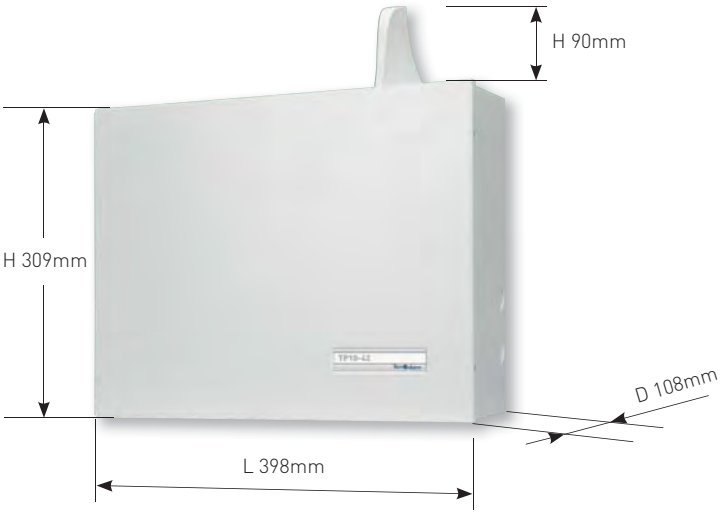
Item no. C126PROLANTENNA

TP10-42

TP10-42

Remotely manageable serial control panel
with 10 to 42 hard-wired/wireless zones

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
CONVENTIONAL*	4	4	8	4	4	8	8	4	-	-
ZONE BUS	-		-							
SENSOR BUS	6	-	-	-	-	-	-	4	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.

Videoalarm

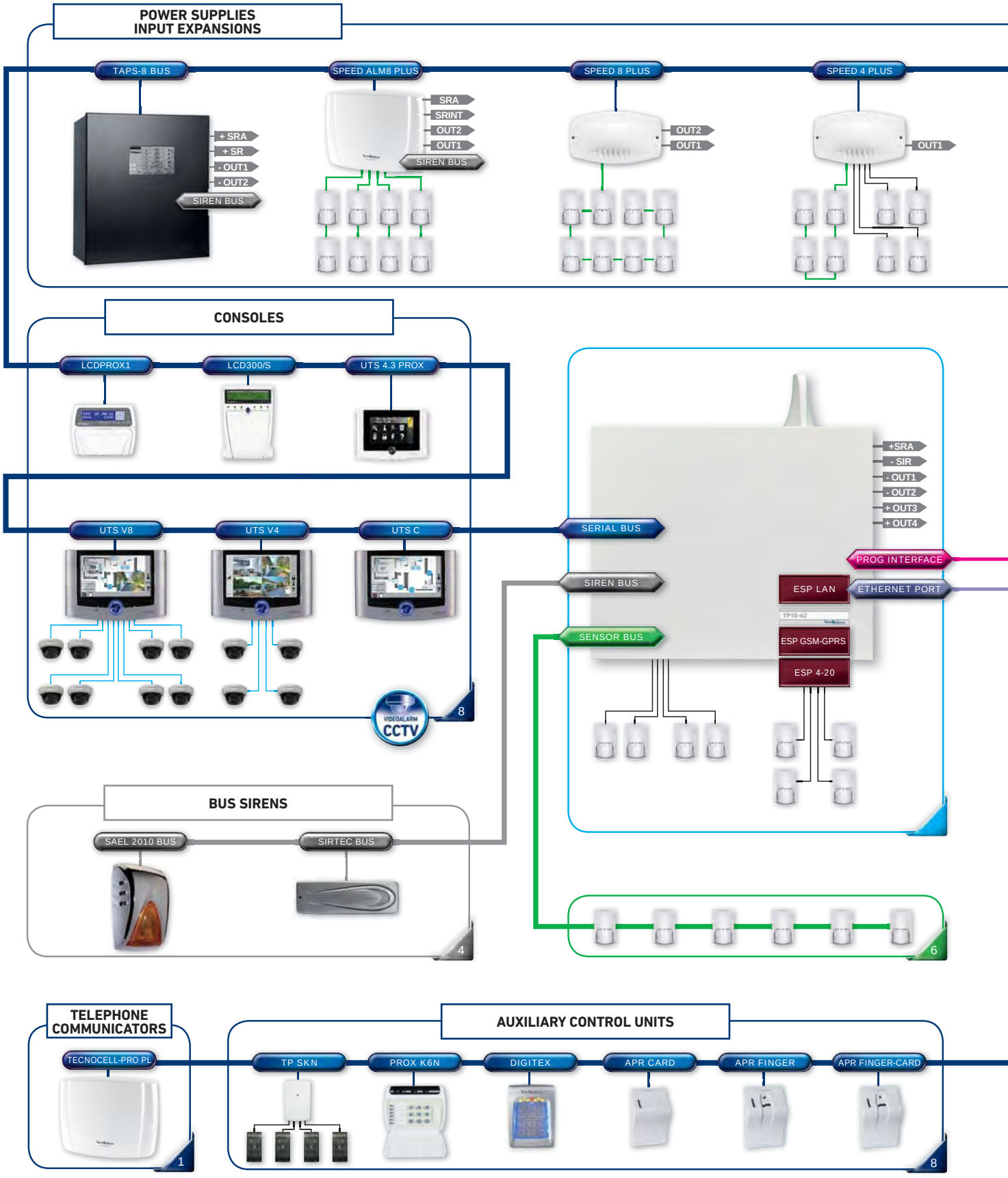
	Cameras	Recording	Viewing
UTS V4	4	-	1/4
UTS V8	8	-	1/4

	Cameras	Recording	Viewing
UTS E	24	8	1/4

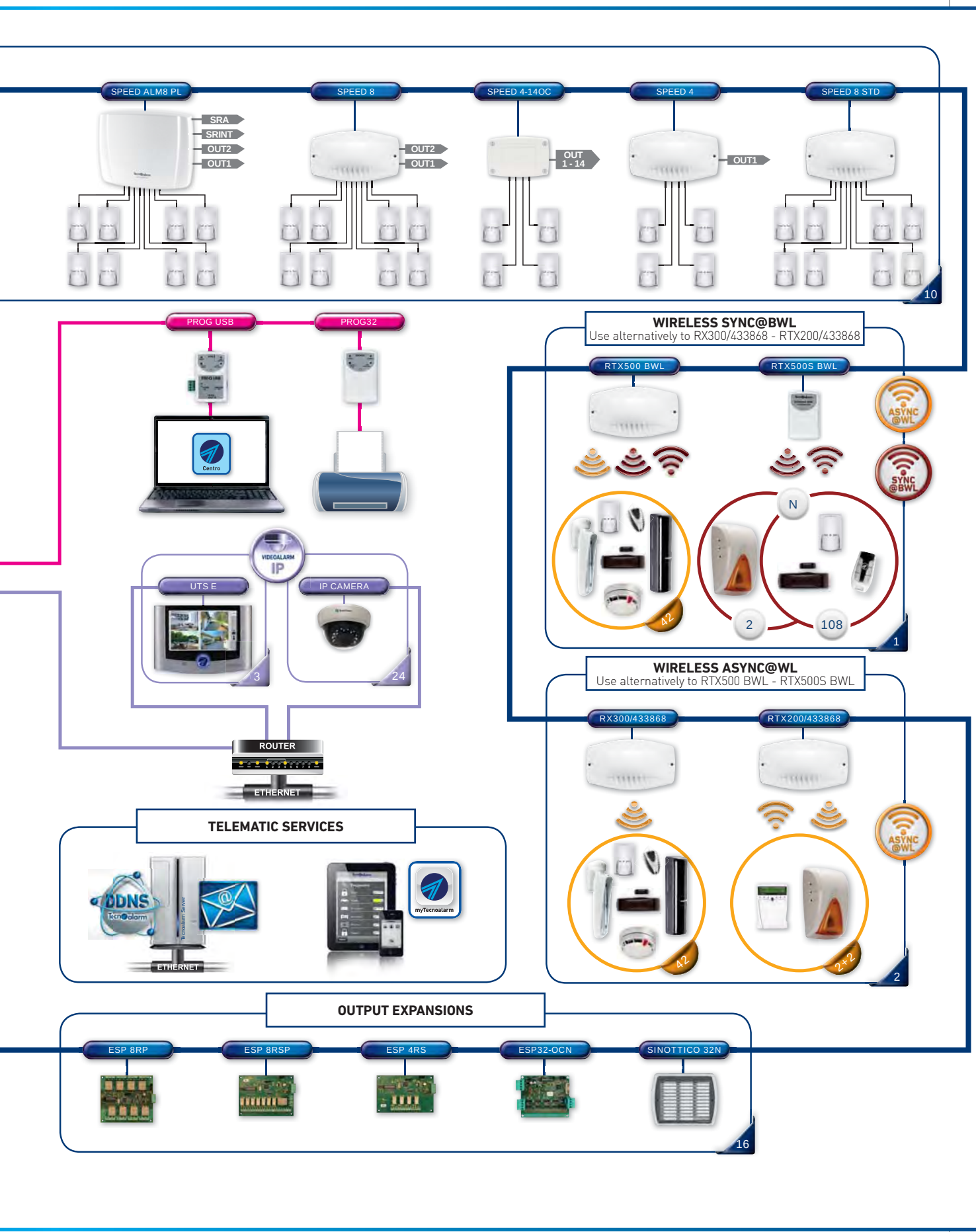
Technical evaluation index	Serial ports			Communication vectors				Videoalarm/Telematic Services			
	SERIAL BUS	SENSOR BUS	SIREN BUS	PSTN	GSM-GPRS	IP	GSM-EXT	VIDEOALARM IP	VIDEOALARM CCTV	DDNS Tecnoalarm	myTecnoalarm
TP4-20				ATE2		ATE2	ATE2				
	C			C				C			
TP4-20 GSM					ATE2	ATE2					
	C			C				C			
TP8-28				ATE2		ATE4	ATE2				
	A			B				B			
TP8-28 GSM					ATE4	ATE4	ATE2				
	A			B				B			
TP10-42				ATE2	ATE4	ATE4	ATE2				
	A			A				A			
TP8-88				ATE2	ATE4	ATE4	ATE2				
	A			A				A			
TP20-440				ATE2	ATE4	ATE4	ATE2				
	A			A				A			

ATE (Alarm Transmission Equipment) - A: excellent - B: good - C: satisfactory

TP10-42



The label indicates the number of connectable devices per type.


SPEED ALM8 PL
SRA
SRINT
OUT2
OUT1
SPEED 8
OUT2
OUT1
SPEED 4-14OC
OUT 1 - 14
SPEED 4
OUT1
SPEED 8 STD
10
PROG USB
PROG32
Centro
VIDEOALARM IP
UTS E
IP CAMERA
3
24
ROUTER
ETHERNET
WIRELESS SYNC@BWL
Use alternatively to RX300/433868 - RTX200/433868
RTX500 BWL
RTX500S BWL
ASYNC @WL
SYNC @BWL
N
42
2
108
1
WIRELESS ASYNC@WL
Use alternatively to RTX500 BWL - RTX500S BWL
RX300/433868
RTX200/433868
ASYNC @WL
42
2+2
2
TELEMATIC SERVICES
DDNS
tecnoalarm
ETHERNET
myTecnoalarm
OUTPUT EXPANSIONS
ESP 8RP
ESP 8RSP
ESP 4RS
ESP32-OCN
SINOTTICO 32N
16

TP10-42

TP10-42

- Management of max. 42 hard-wired zones
- Management of max. 42 wireless zones (used alternatively to the hard-wired zones)
- 1 tamper input
- 4 zone inputs for conventional detectors
- 1 Sensor Bus port for 6 RSC® peripheral devices
- 1 RS485 port for conventional peripheral devices
- 1 Siren Bus port for 4 RSC® sirens
- 1 alarm output for indoor siren
- 1 alarm output for outdoor siren
- 16 programmable logic outputs
- On-board PSTN interface: 8 channels with 2 telephone numbers each
- Event notification in the formats: speech, SMS, Ring, DTMF, FSK and data
- Communication vectors: PSTN (on-board), GSM-GPRS, GSM and TCP/IP (optional)
- GSM network cell scanner function
- Jammer detector function
- Voice synthesis
- Management of multiuser systems with common zones
- Management of the telematic services DDNS Tecnoalarm, SNTP and Mail Server Tecnoalarm
- 8 programs
- 8 remote controls
- 8 timers
- 6 access periods
- 8 cyclic timers
- Quadrennial or perpetual calendar
- Management of biometric finger print and RFID card readers
- 122 access codes
- 100 finger prints
- 100 transponders/RFID cards
- 80 wireless keys
- Digital control of the radio range and interferences
- Programmable coincidence function
- Event buffer with a capacity of 7,600 events
- 14.4V power supply output for battery recharge
- Battery test with automatic disconnection in case of failure
- 3A linear power supply

Standard equipment	RSC, RIV, ZONES 10 UP TO 42, 8 PROGRAMS MANAGED, 8 REMOTE CONTROLS, PSTN, VOCABULARY
Expansions	VIDEOALARM CCTV, VIDEOALARM IP, WIRELESS, IP, GSM-GPRS, GSM-GPRS EXTERNAL
Control modes	122 CODES, 100 RFID KEYS, 80 WL KEYS, FINGER PRINT MANAGEMENT, RFID CARD MANAGEMENT, myTecnoalarm
Automation	6 ACCESS PERIOD 08:00 START 20:00 STOP, 8 TIMERS 00:00, 8 CYCLIC TIMERS 00:00, CALENDAR 4Y/∞, DDNS Tecnoalarm
Software options/Compatibility with monitoring software	ADVANCED PROGRAMMING, TECNO MONITOR
Ports	TTL INTERFACE

TP10-42 - Technical and functional specifications

Zones	Total logic zones	**42**
	CPU hard-wired zones	**4 conventional**
		6 Sensor Bus
	Total hard-wired zones	**42**
	Total wireless zones	**42**
Outputs	CPU outputs	**6 programmable**
	Sirens	**8**
System features	RS485 serial bus	**3**
	Voice synthesis	✓
	Event buffer capacity	**7,600 events**
Programs and access management	Programs	**8**
	Codes	**122**
	Finger prints	**100**
	Transponders/RFID	**100**
	Wireless keys	**80**
Automation	Timers	**8**
	Access periods	**6**
	Calendar	**Quadrennial or perpetual**
	Remote controls	**8**
	Cyclic timers	**8**
	TCS (test call with TCP/IP)	✓
Telephone section	Channels	**8**
	PSTN vector	**On-board**
	GSM-GPRS vector (optional)	**ESP GSM-GPRS**
	GSM vector (optional)	**TECNOCELL-PRO PL**
	IP vector (optional)	**ESP LAN**
	Transmittable events	**157**
	Telephone numbers/IP addresses	**2 per channel (max. 24 digits)**
	Call event queue	**32**
	Communication protocols	**216**
Telematic services	DDNS Tecnoalarm	✓
	Mail Server Tecnoalarm	✓
	SNTP	✓

Videoalarm	CCTV	✓
	IP	✓
Serial expansions	Hard-wired input expansions	**10**
	Wireless expansions	**2**
	Consoles	**8**
	Auxiliary control units	**8**
	Output expansions	**16**
	GSM telephone communicator	**1**
	Bus sirens	**4**
	Wireless sirens	**2**
	Wireless consoles	**2 (ASYNC@WL)**
Advanced programming	Actions	**1,024**
	Timers	**512**
	Counters	**128**
	Telephone index	**48 numbers**
	Reserved output expansions	**4**
Accessory management	App (iPhone + Android)	✓
	Printer management	✓
Electrical specifications	Operating voltage	**230V AC +/- 10% 50Hz**
	CPU board consumption	**150mA @ 13.8V DC**
	Power supply	**3A @ 14.4V DC**
	Battery	**12V/12Ah**
Physical specifications	Environmental class	**II**
	Casing	**Metallico**
	Dimensions (L x H x D) (w/o antenna)	**398 x 309 x 108mm**
	Antenna height	**90mm**
	Weight (w/o battery)	**4.5kg**
	Operating temperature	**-10°C...+55°C**
	Humidity (w/o condensation)	**93%**
Conformity	Directive	**R&TTE 1999/05/EC**

TP10-42

Internal expansions and interfaces

ESP4-20

Approved for certified systems

ZONE BUS DETECTORS

4 CONVENTIONAL DETECTORS

Mounting position	A	B	C

Expansion module with 4 parallel inputs for the connection of conventional detectors and Zone Bus detectors (only the first two inputs).

Item no. F127TP420ESP

ESP LAN

Approved for certified systems

IP

Mounting position	A	B	C

Ethernet-Interface
The interface implements the IP vector and permits remote management with TCP/IP.

Item no. F127ESPLAN

ESP GSM-GPRS

Approved for certified systems

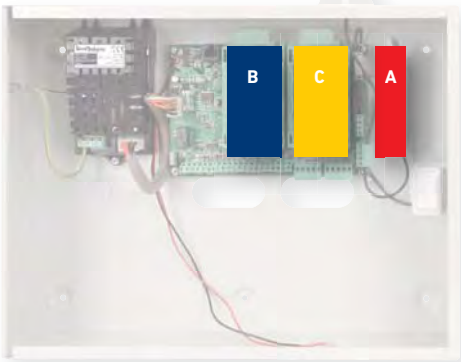
GSM-GPRS

Mounting position	A	B	C

Interface for the connection of the control panel with the GSM or GSM-GPRS network
The interface allows to use the GSM or GSM-GPRS network as communication vector.

Item no. F127ESPGSMGPRS

MOUNTING POSITIONS



MODELS			PSTN	GSM-GPRS	IP	ADVANCED PROGRAMMING	POWER SUPPLY	METAL BOX
Model	Item no.							
TP10-42	F101T42-UK		✓	Optional	Optional	Optional	3A	✓

OPTIONS		
Option	Item no.	
ADVANCED PROGRAMMING	F127T42/AV	Advanced programming software module

VECTORS			DDNS	MAIL	APP	RDV®	SMS	REMOTE CONTROLS	Centro	CMS SERVICE
Vector	Device	Class	DDNS	MAIL	APP	RDV®	SMS	Remote controls	Remote management	Monitoring
PSTN	ON-BOARD	ATE2				✓		✓	✓	✓
GSM-GPRS*	ESP GSM-GPRS	ATE2/4				✓	✓	✓	✓	✓
GSM-EXT*	TECNOCELL PRO PL	ATE2				✓			✓	✓
IP*	ESP LAN	ATE2/4	✓	✓	✓				✓	✓

*** The vectors GSM-GPRS, GSM-EXT and IP are optional and require the installation of internal and external interfaces.**
Class - The class defines the performance criteria of the alarm transmission equipment (ATE) for alarm notification. In compliance with the valid standards, the criteria of performance are divided into six classes from ATE1 to ATE6. The system's vectors are classified as ATE2 or ATE4 according to the communication protocols used. The class ATE4 requires the use of encrypted protocols. The IP vector has been certified class ATE4 on the basis of internal tests executed by Tecnoalarm.

TP10-42 - Accessories

GSM ANTENNA EXTENSION

4m extension cord for the connection of the antenna to the GSM-GPRS module

Item no. C126PROLANTENNA

TP8-88

TP8-88 TP8-88 TP8-88 TP8-88 TP8-88 TP8-88 TP8-88 TP8-88 TP8-88 TP8-88

TP8-88

Remotely manageable serial control panel
with 8 to 88 hard-wired/wireless zones

EN 50131-1 COMPLIANT

PSC

DDNS Tecnoalarm

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
CONVENTIONAL*	8	4	8	4	4	8	8	4	-	-
ZONE BUS	-		-							
SENSOR BUS	8	-	-	-	-	-	-	4	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.

Videoalarm

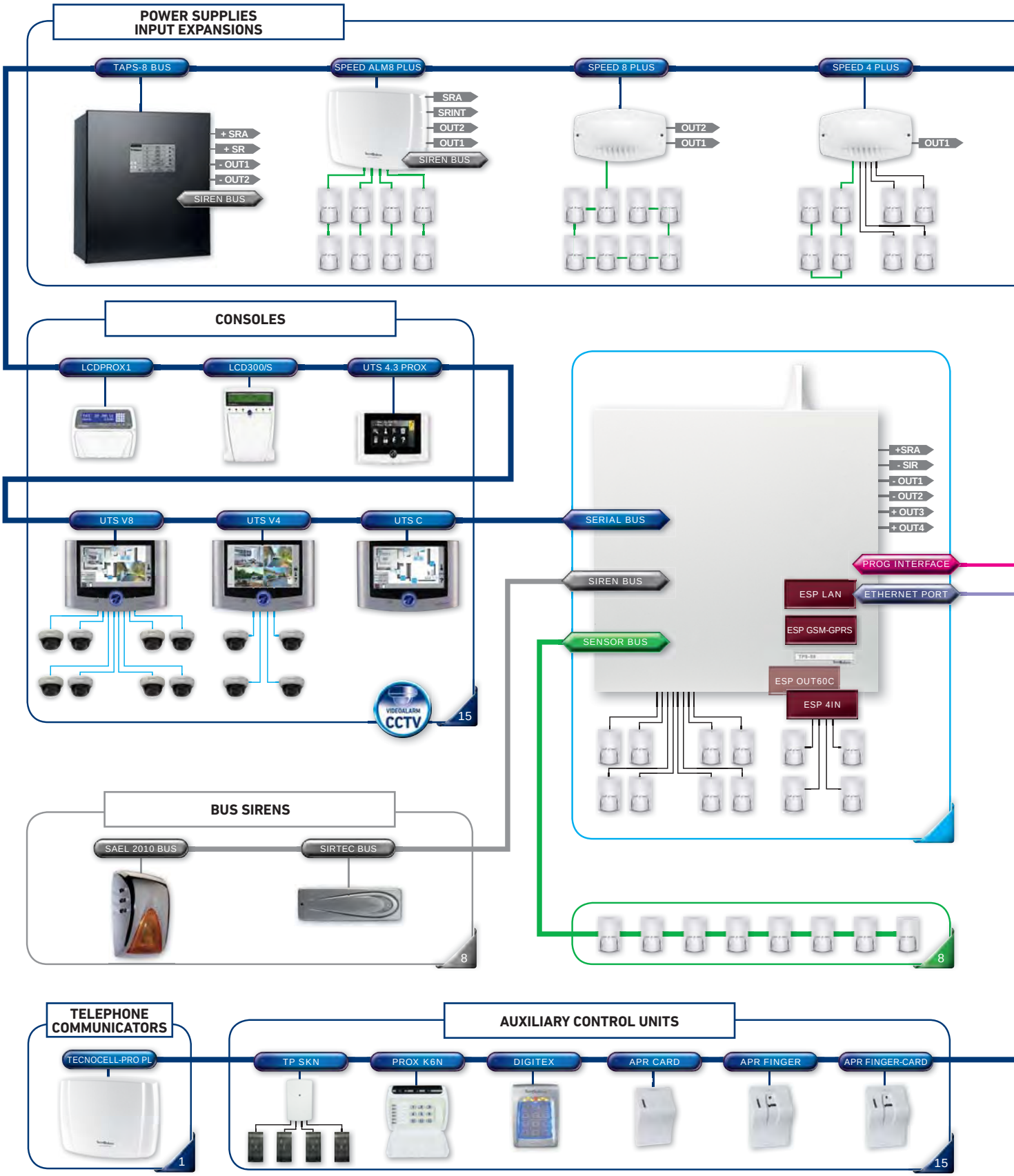
	Cameras	Recording	Viewing
UTS V4	4	-	1/4
UTS V8	8	-	1/4

	Cameras	Recording	Viewing
UTS E	24	8	1/4

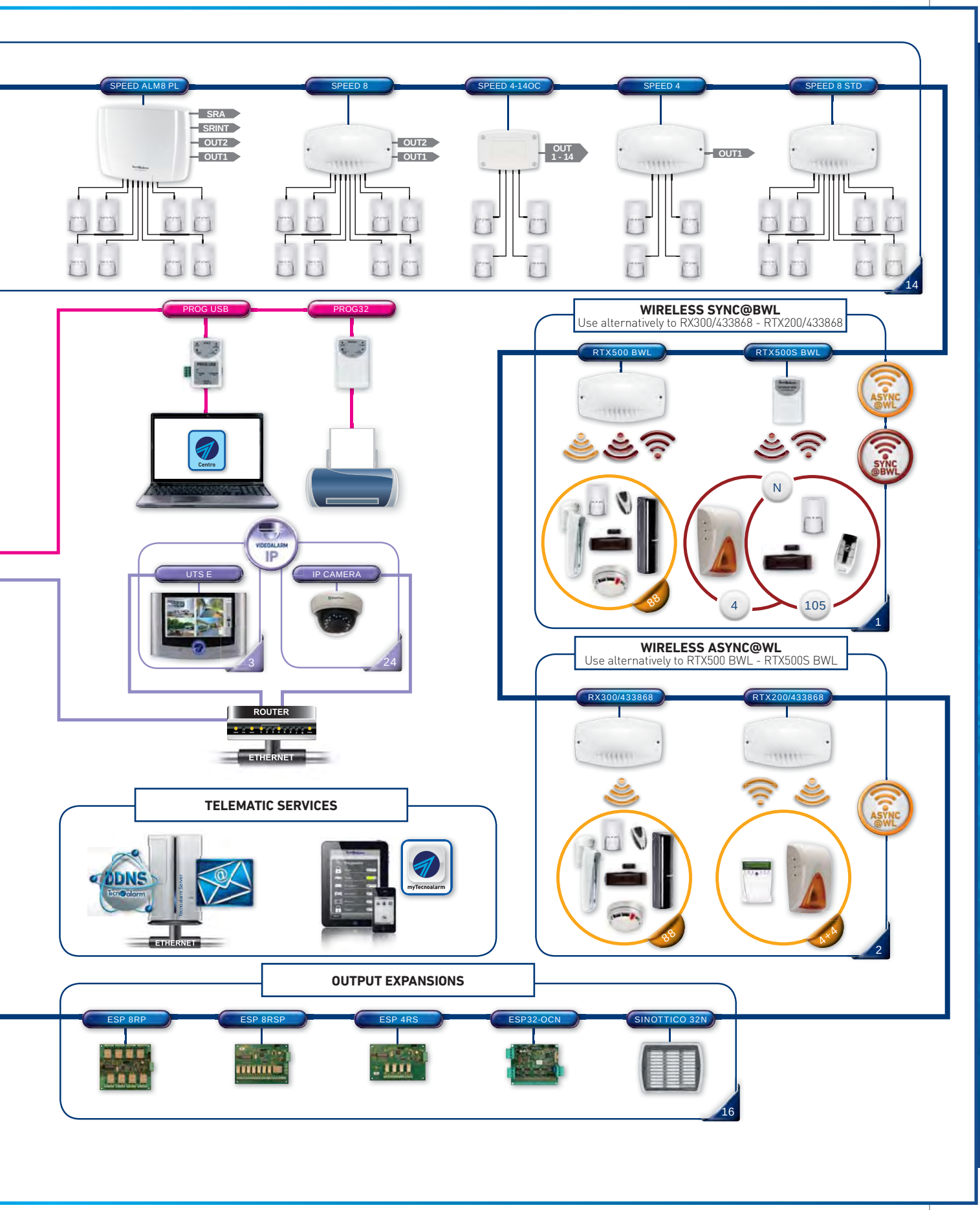
Technical evaluation index	Serial ports			Communication vectors				Videoalarm/Telematic Services			
	SERIAL BUS	SENSOR BUS	SIREN BUS	PSTN	GSM-GPRS	IP	GSM-EXT	VIDEOALARM IP	VIDEOALARM CCTV	DDNS Tecnoalarm	myTecnoalarm
TP4-20				ATE2		ATE2	ATE2				
	C			C				C			
TP4-20 GSM					ATE2	ATE2					
	C			C				C			
TP8-28				ATE2		ATE4	ATE2				
	A			B				B			
TP8-28 GSM					ATE4	ATE4	ATE2				
	A			B				B			
TP10-42				ATE2	ATE4	ATE4	ATE2				
	A			A				A			
TP8-88				ATE2	ATE4	ATE4	ATE2				
	A			**A**				**A**			
TP20-440				ATE2	ATE4	ATE4	ATE2				
	A			A				A			

ATE (Alarm Transmission Equipment) - A: excellent - B: good - C: satisfactory

TP8-88



The label indicates the number of connectable devices per type.


SPEED ALM8 PL
SRA
SRINT
OUT2
OUT1
SPEED 8
OUT2
OUT1
SPEED 4-14OC
OUT
1 - 14
SPEED 4
OUT1
SPEED 8 STD
14
PROG USB
PROG32
Centro
VIDEOALARM
IP
UTS E
IP CAMERA
3
24
ROUTER
ETHERNET
WIRELESS SYNC@BWL
Use alternatively to RX300/433868 - RTX200/433868
RTX500 BWL
RTX500S BWL
ASYNC @WL
SYNC @BWL
N
88
4
105
1
WIRELESS ASYNC@WL
Use alternatively to RTX500 BWL - RTX500S BWL
RX300/433868
RTX200/433868
ASYNC @WL
88
4+4
2
TELEMATIC SERVICES
DDNS
Tecnoalarm
Tecnoalarm Server
ETHERNET
myTecnoalarm
OUTPUT EXPANSIONS
ESP 8RP
ESP 8RSP
ESP 4RS
ESP32-OCN
SINOTTICO 32N
16

TP8-88

TP8-88

- Management of max. 88 hard-wired zones
- Management of max. 88 wireless zones (used alternatively to the hard-wired zones)
- 1 tamper input
- 8 zone inputs for conventional detectors
- 1 Sensor Bus port for 8 RSC® peripheral devices
- 1 RS485 port for conventional peripheral devices
- 1 Siren Bus port for 8 RSC® sirens
- 1 alarm output for indoor siren
- 1 alarm output for outdoor siren
- 6 programmable logic outputs
- On-board PSTN interface: 8 channels with 2 telephone numbers each
- Event notification in the formats: speech, SMS, Ring, DTMF, FSK and data
- Communication vectors: PSTN (on-board), GSM-GPRS, GSM and TCP/IP (optional)
- GSM network cell scanner function
- Jammer detector function
- Voice synthesis
- Management of multiuser systems with common zones
- Management of the telematic services DDNS Tecnoalarm, SNTP and Mail Server Tecnoalarm
- 8 programs
- 8 remote controls
- 16 timers
- 8 access periods
- 8 cyclic timers
- Quadrennial or perpetual calendar
- Management of biometric finger print and RFID card readers
- 202 access codes
- 100 finger prints
- 120 transponders/RFID cards
- 100 wireless keys
- Digital control of the radio range and interferences
- Programmable coincidence function
- Event buffer with a capacity of 7,600 events
- 14.4V power supply output for battery recharge
- Battery test with automatic disconnection in case of failure
- 6A linear power supply
- Certified to EN 50131

Standard equipment	RSC, RJV, ZONES 16 UP TO 88, 8 PROGRAMS MANAGED, 8 REMOTE CONTROLS, PSTN, VOCABULARY
Expansions	VIDEOALARM CCTV, VIDEOALARM IP, WIRELESS, IP, GSM-GPRS, GSM-GPRS EXTERNAL
Control modes	202 CODES, 120 RFID KEYS, 100 WL KEYS, FINGER PRINT MANAGEMENT, RFID CARD MANAGEMENT, myTecnoalarm
Automation	8 ACCESS PERIODS 08:00 START 20:00 STOP, 16 TIMERS 00:00, 8 CYCLIC TIMERS 00:00, CALENDAR 4Y/∞, DDNS Tecnoalarm
Software options/Compatibility with monitoring software	ADVANCED PROGRAMMING, TECNO OUT, TECNO MONITOR
Ports	TTL INTERFACE

TP8-88 - Technical and functional specifications

Zones	Total logic zones	**88**
	CPU hard-wired zones	**8 conventional**
		8 Sensor Bus
	Total hard-wired zones	**88**
	Total wireless zones	**88**
Outputs	CPU outputs	**6 programmable**
	Sirens	**8**
System features	RS485 serial bus	**3**
	Voice synthesis	✓
	Event buffer capacity	**7,600**
Programs and access management	Programs	**8**
	Codes	**202**
	Finger prints	**100**
	Transponders/RFID	**120**
	Wireless keys	**100**
Automation	Timers	**16**
	Access periods	**8**
	Calendar	**Quadrennial or perpetual**
	Remote controls	**8**
	Cyclic timers	**8**
	TCS (test call with TCP/IP)	✓
Telephone section	Channels	**8**
	PSTN vector	**On-board**
	GSM-GPRS vector (optional)	**ESP GSM-GPRS**
	GSM vector (optional)	**TECNOCELL-PRO PL**
	IP vector (optional)	**ESP LAN**
	Transmittable events	**249**
	Telephone numbers/ IP addresses	**2 per channel (max. 24 digits)**
	Call event queue	**32**
	Communication protocols	**216**
Telematic services	DDNS Tecnoalarm	✓
	Mail Server Tecnoalarm	✓
	SNTP	✓

Videoalarm	CCTV	✓
	IP	✓
Serial expansions	Hard-wired input expansions	**14**
	Wireless expansions	**2**
	Consoles	**15**
	Auxiliary control units	**15**
	Output expansions	**16**
	GSM telephone communicator	**1**
	Bus sirens	**8**
	Wireless sirens	**4**
	Wireless consoles	**4 (ASYNC@WL)**
Advanced programming	Actions	**1,024**
	Timers	**512**
	Counters	**128**
	Telephone index	**48 numbers**
	Reserved output expansions	**4**
Accessory management	App (iPhone + Android)	✓
	Tecno out protocol	**Optional**
	Printer management	✓
Electrical specifications	Operating voltage	**230V AC +/- 10% 50Hz**
	CPU board consumption	**150mA @ 13.8V DC**
	Power supply	**6A @ 14.4V DC**
	Battery	**2x 12V/18Ah**
Physical specifications	Environmental class	**II**
	Casing	**Metal**
	Dimensions (L x H x D) (w/o antenna)	**455 x 445 x 115mm**
	Antenna height	**90mm**
	Weight (w/o battery)	**7kg**
	Operating temperature	**-10°C...+55°C**
	Humidity (w/o condensation)	**93%**
Conformity	Standards	**EN 50131-1 EN 50131-3 EN 50136-2-1**
	Security grade	**3**
	Notified body	**IMQ**

TP8-88

Internal expansions and interfaces

ESP 4IN

Approved for certified systems

ZONE BUS DETECTORS | 4 CONVENTIONAL DETECTORS

Mounting position	A	B	C

Expansion module with 4 parallel inputs for the connection of conventional detectors and Zone Bus detectors

Item no. F127ESP4IN

ESP OUT6OC

Approved for certified systems

6 OUTPUTS

Mounting position	A	B	C

Expansion module with 6 open-collector outputs which can be freely associated to the logic outputs of the system

Item no. F127ESPOUT6OC

ESP LAN

Approved for certified systems

IP

Mounting position	A	B	C

Ethernet-Interface
The interface implements the IP vector and permits remote management with TCP/IP.

Item no. F127ESPLAN

ESP GSM-GPRS

Approved for certified systems

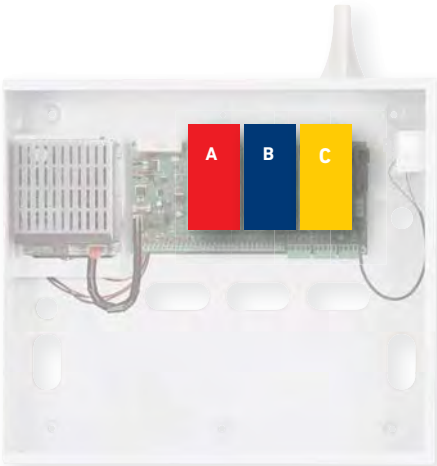
GSM-GPRS

Mounting position	A	B	C

Interface for the connection of the control panel with the GSM or GSM-GPRS network
The interface allows to use the GSM or GSM-GPRS network as communication vector.

Item no. F127ESPGSMGPRS

MOUNTING POSITIONS



MODELS		CERTIFIED EN 50131-1 EN 50131-3 EN 50136-2-1	PSTN	GSM-GPRS	IP	ADVANCED PROGRAMMING	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	✓

OPTIONS		
Option	Item no.	
ADVANCED PROGRAMMING	F127T88/AV	Advanced programming software module
TECNO OUT	F127T88/TECNO	Software module for management of the Tecno out protocol

VECTORS			DDNS	MAIL	APP	RDV®	SMS	Remote controls	Remote management	Monitoring
Vector	Device	Class								
PSTN	ON-BOARD	ATE2				✓		✓	✓	✓
GSM-GPRS*	ESP GSM-GPRS	ATE2/4				✓	✓	✓	✓	✓
GSM-EXT*	TECNOCELL-PRO PL	ATE2				✓			✓	✓
IP*	ESP LAN	ATE2/4	✓	✓	✓				✓	✓

*** The vectors GSM-GPRS, GSM-EXT and IP are optional and require the installation of internal and external interfaces.**
Class - The class defines the performance criteria of the alarm transmission equipment (ATE) for alarm notification. In compliance with the valid standards, the criteria of performance are divided into six classes from ATE1 to ATE6. The system's vectors are classified as ATE2 or ATE4 according to the communication protocols used. The class ATE4 requires the use of encrypted protocols.
The IP vector has been certified class ATE4 on the basis of internal tests executed by Tecnoalarm.

TP8-88 - Accessories

GSM ANTENNA EXTENSION

4m extension cord for the connection of the antenna to the GSM-GPRS module

Item no. C126PROLANTENNA

TP20-440

TP20-440 TP20-440 TP20-440 TP20-440 TP20-440 TP20-440 TP20-440 TP20-440

TP20-440

Remotely manageable serial control panel
with 20 to 440 hard-wired/wireless zones

RSC®

DDNS
Tecnoalarm

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
CONVENTIONAL*	12	4	8	4	4	8	8	4	No	No
ZONE BUS	No		No							
SENSOR BUS	8	No	No	No	No	No	No	4	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.

Videoalarm

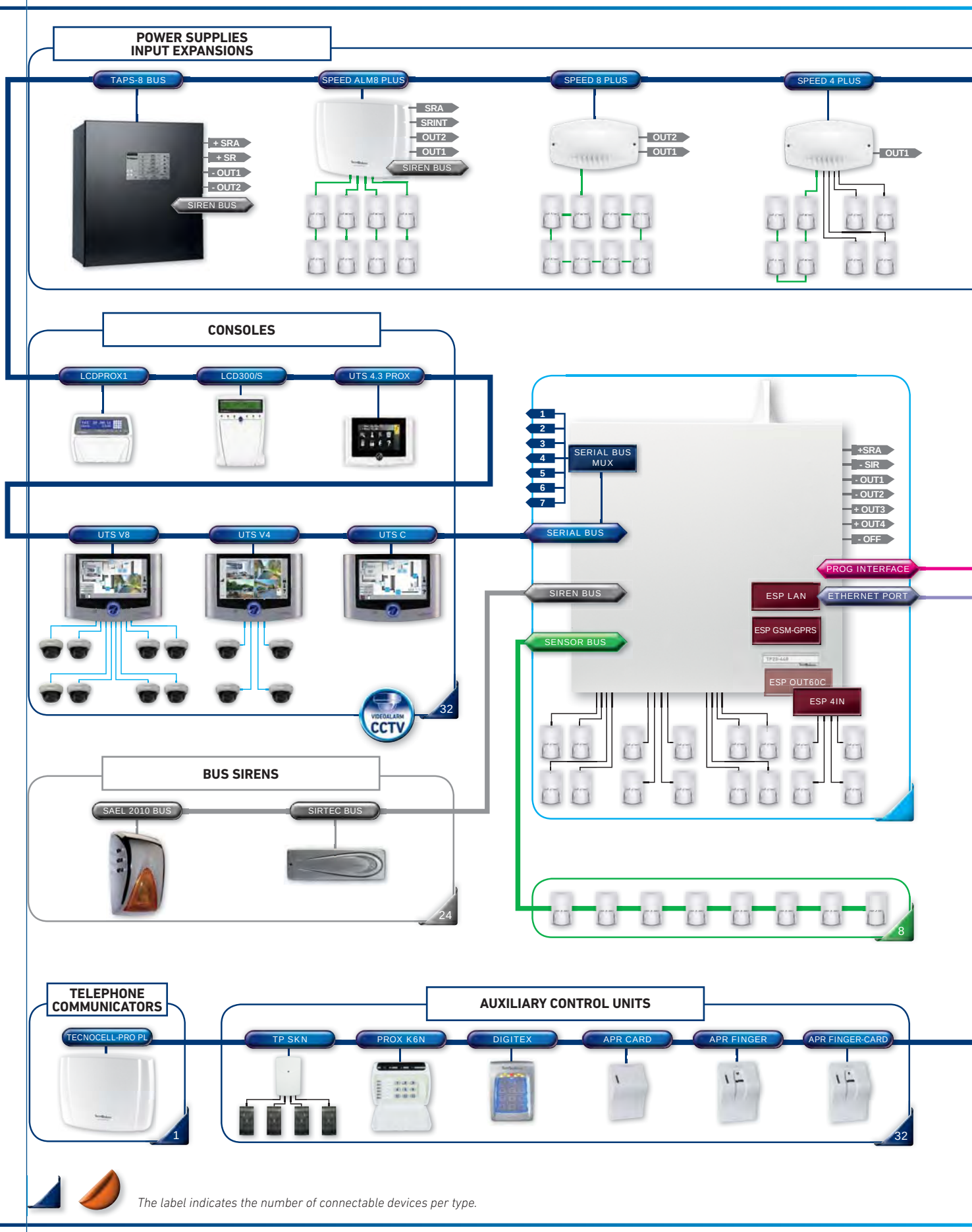
	Cameras	Recording	Viewing
UTS V4	4	-	1/4
UTS V8	8	-	1/4

	Cameras	Recording	Viewing
UTS E	24	8	1/4

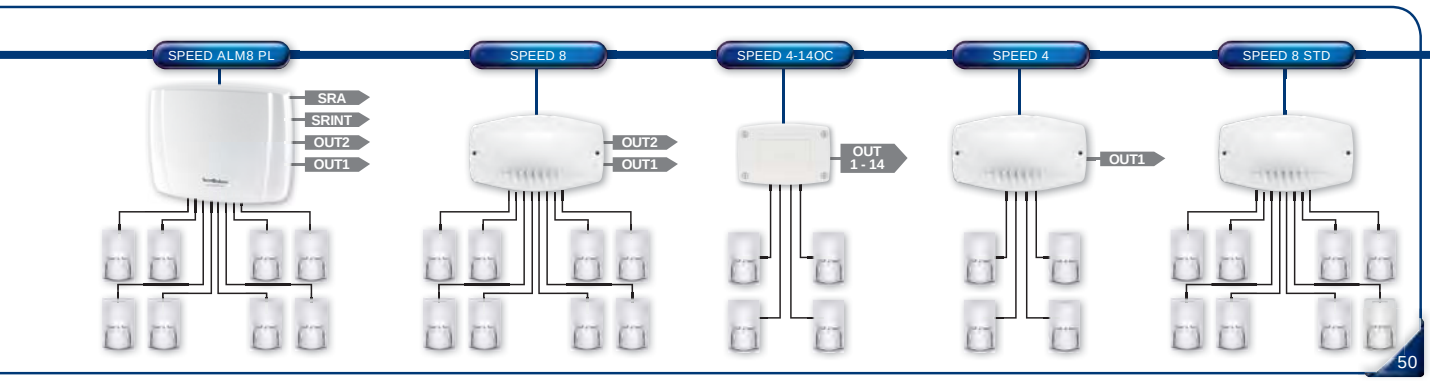
Technical evaluation index	Serial ports			Communication vectors				Videoalarm/Telematic Services			
	SERIAL BUS	SENSOR BUS	SIREN BUS	PSTN	GSM-GPRS	IP	GSM-EXT	VIDEOALARM IP	VIDEOALARM CCTV	DDNS Tecnoalarm	myTecnoalarm
TP4-20				ATE2		ATE2	ATE2				
	C			C				C			
TP4-20 GSM					ATE2	ATE2					
	C			C				C			
TP8-28				ATE2		ATE4	ATE2				
	A			B				B			
TP8-28 GSM					ATE4	ATE4	ATE2				
	A			B				B			
TP10-42				ATE2	ATE4	ATE4	ATE2				
	A			A				A			
TP8-88				ATE2	ATE4	ATE4	ATE2				
	A			A				A			
TP20-440				ATE2	ATE4	ATE4	ATE2				
	A			**A**				**A**			

ATE (Alarm Transmission Equipment) - A: excellent - B: good - C: satisfactory

TP20-440



The label indicates the number of connectable devices per type.

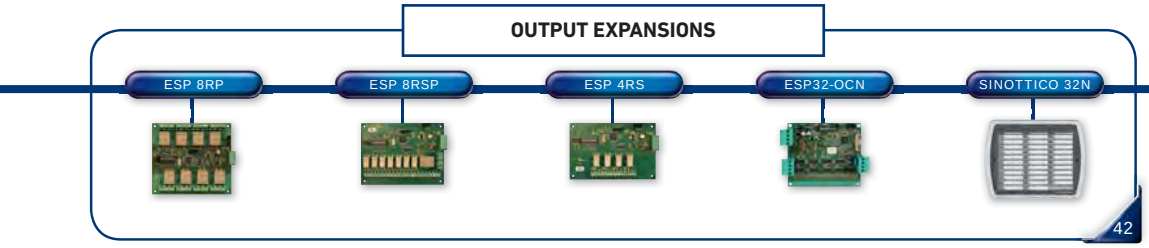

SPEED ALM8 PL
SRA
SRINT
OUT2
OUT1
SPEED 8
OUT2
OUT1
SPEED 4-14OC
OUT
1 - 14
SPEED 4
OUT1
SPEED 8 STD
50

PROG USB
PROG32
Centro
VIDEOALARM
IP
UTS E
IP CAMERA
3
24
ROUTER
ETHERNET

WIRELESS SYNC@BWL
Use alternatively to RX300/433868 - RTX200/433868
RTX500 BWL
RTX500S BWL
ASYNC @WL
SYNC @BWL
N
160
6
91
1

WIRELESS ASYNC@WL
Use alternatively to RTX500 BWL - RTX500S BWL
RX300/433868
RTX200/433868
ASYNC @WL
160
6+6
3

TELEMATIC SERVICES
DDNS
Tecnoalarm
ETHERNET
myTecnoalarm


OUTPUT EXPANSIONS
ESP 8RP
ESP 8RSP
ESP 4RS
ESP32-OCN
SINOTTICO 32N
42

TP20-440

TP20-440

- Management of max. 424 hard-wired zones
- Management of max. 160 wireless zones
- 1 tamper input
- 12 zone inputs for conventional detectors
- 1 Sensor Bus port for 8 RSC® peripheral devices
- 1 RS485 port for conventional peripheral devices
- 1 Siren Bus port for 32 RSC® sirens
- 1 alarm output for indoor siren
- 1 alarm output for outdoor siren
- 6 programmable logic outputs
- 1 open-collector output OFF-
- 1 module Serial Bus Mux with 7 terminals for branching of the serial bus
- On-board PSTN interface:
  8 channels with 2 telephone numbers each
- Event notification in the formats:
  speech, SMS, Ring, DTMF, FSK and data
- Communication vectors:
  PSTN (on-board), GSM-GPRS, GSM and TCP/IP (optional)
- GSM network cell scanner function
- Jammer detector function
- Voice synthesis
- Management of multiuser systems with common zones
- Management of the telematic services DDNS Tecnoalarm, SNTP and Mail Server Tecnoalarm
- 32 programs
- 32 remote controls
- 64 timers
- 16 access periods
- 10 cyclic timers
- Quadrennial or perpetual calendar
- Management of biometric finger print and RFID card readers
- 1,000 access codes
- 100 finger prints
- 1,000 transponders/RFID cards
- 250 wireless keys
- Digital control of the radio range and interferences
- Programmable coincidence function
- Event buffer with a capacity of 32,000 events
- 14.4V power supply output for battery recharge
- Battery test with automatic disconnection in case of failure
- 8A linear power supply

Standard equipment	RSC, RJV, ZONES 20 UP TO 440, 32 PROGRAMS MANAGED, 32 REMOTE CONTROLS, PSTN, VOCABULARY
Expansions	VIDEOALARM CCTV, VIDEOALARM IP, WIRELESS, IP, GSM-GPRS, GSM-GPRS EXTERNAL
Control modes	1000 CODES, 1000 RFID KEYS, 250 WL KEYS, FINGER PRINT MANAGEMENT, RFID CARD MANAGEMENT, myTecnoalarm
Automation	16 ACCESS PERIODS 08:00 20:00 START STOP, 64 TIMERS 00:00, 10 CYCLIC TIMERS 00:00, CALENDAR 4Y/∞, DDNS Tecnoalarm
Software options/Compatibility with monitoring software	ADVANCED PROGRAMMING, TECNO OUT, TECNO MONITOR
Ports	TTL INTERFACE

TP20-440 - Technical and functional specifications

Zones	Total logic zones	**440**
	CPU hard-wired zones	**12 conventional**
		8 Sensor Bus
	Total hard-wired zones	**424**
	Total wireless zones	**160**
Outputs	CPU outputs	**6 programmable**
	Sirens	**32**
System features	RS485 serial bus	**3**
	Voice synthesis	✓
	Event buffer capacity	**32,000 events**
Programs and access management	Programs	**32**
	Codes	**1,000**
	Finger prints	**100**
	Transponders/RFID	**1,000**
	Wireless keys	**250**
Automation	Timers	**64**
	Access periods	**16**
	Calendar	**Quadrennial or perpetual**
	Remote controls	**32**
	Cyclic timers	**10**
	TCS (test call with TCP/IP)	✓
Telephone section	Channels	**8**
	PSTN vector	**On-board**
	GSM-GPRS vector (optional)	**ESP GSM-GPRS**
	GSM vector (optional)	**TECNOCELL-PRO PL**
	IP vector (optional)	**ESP LAN**
	Transmittable events	**1,097**
	Telephone numbers/ IP addresses	**2 per channel (max. 24 digits)**
	Call event queue	**96**
	Communication protocols	**216**
Telematic services	DDNS Tecnoalarm	✓
	Mail Server Tecnoalarm	✓
	SNTP	✓

Videoalarm	CCTV	✓
	IP	✓
Serial expansions	Hard-wired input expansions	**50**
	Wireless expansions	**3**
	Consoles	**32**
	Auxiliary control units	**32**
	Output expansions	**42**
	GSM telephone communicator	**1**
	Bus sirens	**24**
	Wireless sirens	**6**
	Wireless consoles	**6 (ASYNC@WL)**
Advanced programming	Actions	**2,048**
	Timers	**512**
	Counters	**256**
	Telephone index	**48 numbers**
	Reserved output expansions	**16**
Accessory management	App (iPhone + Android)	✓
	Tecno out protocol	**Optional**
	Printer management	✓
Electrical specifications	Operating voltage	**230V AC +/- 10% 50Hz**
	CPU board consumption	**150mA @ 13.8V DC**
	Power supply	**8A @ 14.4VDC**
	Battery	**2x 12V/18Ah**
Physical specifications	Environmental class	**II**
	Casing	**Metal**
	Dimensions (L x H x D) (w/o antenna)	**455 x 445 x 115mm**
	Antenna height	**90mm**
	Weight (w/o battery)	**7.8kg**
	Operating temperature	**-10°C...+55°C**
	Humidity (w/o condensation)	**93%**
Conformity	Directive	**R&TTE 1999/05/EC**

TP20-440

Internal expansions and interfaces

ESP 4IN

Approved for certified systems

ZONE BUS DETECTORS

4 CONVENTIONAL DETECTORS

Mounting position	A	B	C

Expansion module with 4 parallel inputs for the connection of conventional detectors and Zone Bus detector

Item no. F127ESP4IN

ESP OUT6OC

Approved for certified systems

6 OUTPUTS

Mounting position	A	B	C

Expansion module with 6 open-collector outputs which can be freely associated to the logic outputs of the system

Item no. 127ESPOUT6OC

ESP LAN

Approved for certified systems

IP

Mounting position	A	B	C

Ethernet-Interface
The interface implements the IP vector and permits remote management with TCP/IP.

Item no. F127ESPLAN

ESP GSM-GPRS

Approved for certified systems

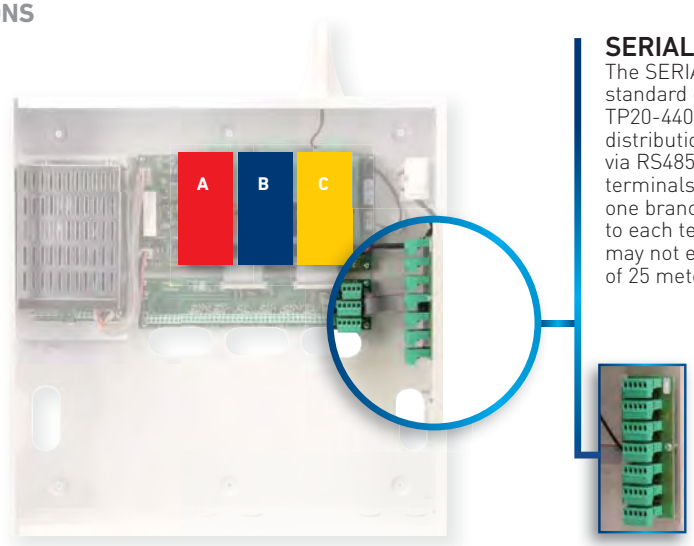
GSM-GPRS

Mounting position	A	B	C

Interface for the connection of the control panel with the GSM or GSM-GPRS network
The interface allows to use the GSM or GSM-GPRS network as communication vector.

Item no. F127ESPGSMGPRS

MOUNTING POSITIONS



SERIAL BUS MUX

The SERIAL BUS MUX module, standard equipment for the TP20-440 system, 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 (each branch line may not exceed a maximum length of 25 meters).

MODELS		CERTIFIED EN 50131-1 EN 50131-3 EN 50136-2-1	PSTN	GSM-GPRS	IP	ADVANCED PROGRAMMING	TECNO OUT	POWER SUPPLY	METAL BOX
Model	Item no.								
TP20-440	F101T440-UK		✓	Optional	Optional	✓	Optional	8A	✓

OPTIONS		
Option	Item no.	
TECNO OUT	F127T440/TECNO	Software module for management of the Tecno out protocol

VECTORS			DDNS	MAIL	APP	RDV®	SMS	REMOTE CONTROLS	Centro	CMS SERVICE
Vector	Device	Class	DDNS	MAIL	APP	RDV®	SMS	Remote controls	Remote management	Monitoring
PSTN	ON-BOARD	ATE2				✓		✓	✓	✓
GSM-GPRS*	ESP GSM-GPRS	ATE2/4				✓	✓	✓	✓	✓
GSM-EXT*	TECNOCELL-PRO PL	ATE2				✓			✓	✓
IP*	ESP LAN	ATE2/4	✓	✓	✓				✓	✓

*** The vectors GSM-GPRS, GSM-EXT and IP are optional and require the installation of internal and external interfaces.**
Classe - The class defines the performance criteria of the alarm transmission equipment (ATE) for alarm notification. In compliance with the valid standards, the criteria of performance are divided into six classes from ATE1 to ATE6. The system's vectors are classified as ATE2 or ATE4 according to the communication protocols used. The class ATE4 requires the use of encrypted protocols. The IP vector has been certified class ATE4 on the basis of internal tests executed by Tecnoalarm.

TP20-440 - Accessories

GSM ANTENNA EXTENSION

4m extension cord for the connection of the antenna to the GSM-GPRS module

Item no. C126PROLANTENNA

VIDEOALARM

Evolution
The ongoing evolution of the Tecnoalarm systems reaches a new milestone of technological excellence: Videoalarm.

New concepts
With the Videoalarm devices, Tecnoalarm redefines the traditional concepts of video surveillance extending the features of the Tecnoalarm burglar alarm systems with video functions.

Integration
The integration of the two systems is complete and synergistic, with great benefits of compactness, functionality and high-performance, benefits that the conventional video surveillance systems are not able to provide.

VIDEOALARM CCTV
The Videoalarm CCTV devices are managed by the console UTS V, equipped with video balun interfaces for the connection of analogue surveillance cameras using a UTP CAT 5 cable.

VIDEOALARM IP
The Videoalarm IP cameras and devices are connected via the Ethernet to the console UTS E. The console is compatible with the Tecnoalarm systems with integrated IP interface as well as the self-powered Ethernet switch TECNOSWITCH with 8 PoE Plus ports.

Technical partner
Tecnoalarm is the exclusive distributor of Everfocus cameras in Italy.

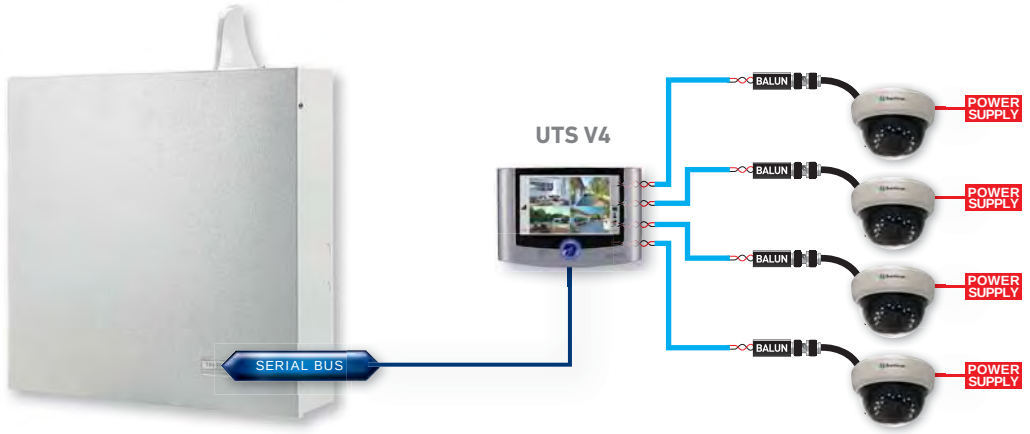
Videoalarm

Ask for the Videoalarm catalogue

Touch screen video consoles

UTS V4 - UTS V8

The consoles UTS V4 and UTS V8 permit the integration of CCTV surveillance devices into the burglar alarm systems from Tecnoalarm. The integration of intrusion detection and video functions transforms the passive video surveillance into something dynamic and responsive. The result are extremely synergistic and flexible systems geared toward the customer.



UTS V4 - UTS V8 - Technical and functional specifications

General features	Standard models	UTS V4 UTS V8
	Models with floor plan management	UTS V4 A UTS V8 A
	Address programming	Digital
	Connection	RS485
CCTV camera management	Type of cameras	Analogue
	Video standard	960H PAL/NTSC
	Cameras managed	4 UTS V4 8 UTS V8
	Inputs	4 passive video baluns
	Camera connection	UTP CAT 5
	Viewing mode	Full screen/mosaic (4 live streams)
	Viewing time	Programmable
	Camera association	Zone/Program/ Remote control
	Associations managed	Max. 4 per camera
User interface	Screen	Color 7" TFT multi-point capacitive touch screen
	Resolution	800 x 480 pixel
	System-user interaction	Icons
	Voice synthesis	Bi-lingual
	Help function	Vocal and graphic
	Programs managed	32

Floor plan 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	Flash memory	1 Gbit
	RAM	32 MBit
	USB port	USB type B
Electrical specifications	Rated voltage	12V DC
	Operating voltage	10V...15V DC
	Stand-by consumption	280mA @ 12V DC
	Max. consumption	500mA @ 12V DC
Anti-tamper protection	Anti-opening and anti-detachment	Micro-switch
Physical specifications	Environmental class	II
	Protection class	IP40
	Casing	ASA
	Dimensions (L x H x D)	225 x 157 x 32mm
	Weight	350g
	Operating temperature	+5°C...+40°C

Serial BUS RS485 Connection

VIDEOALARM CCTV

UTS V4

CAMERA MANAGEMENT 4 OR 8 | CODES | 7" COLORS DISPLAY | CAPACITIVE TOUCH SCREEN | VOICE SYNTHESIS | USB PORT | 32 PROGRAMS MANAGED

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

Touch screen video console for the integration of Videoalarm CCTV into the burglar alarm systems from Tecnoalarm
The console provides 4 video inputs for the connection of 960H analogue surveillance cameras.
The cameras can be associated to 4 zones, programs or remote controls each. 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.
USB port - Stylish design - Ultra-thin casing - Surface and flush mounting - White cover plate (exchangeable)

Item no. F127UTSV4

UTS V8

As UTS V4 but with 8 video inputs

Item no. F127UTSV8

UTS V4 A

CAMERA MANAGEMENT 4 OR 8 | CODES | 7" COLORS DISPLAY | CAPACITIVE TOUCH SCREEN | VOICE SYNTHESIS | USB PORT | 32 PROGRAMS MANAGED

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

As UTS V4 but with interactive floor plan management
Each floor plan manages up to 32 icons, which can be associated to the devices or the navigation functions, and 4 live streams of the surveillance cameras. In case of alarm, the console automatically shows the corresponding floor plan. The floor plans can also be viewed on-demand.

Item no. F127UTSV4AVA

UTS V8 A

As UTS V4 A but with 8 video inputs

Item no. F127UTSV8AVA

UTS V - Options

UTS FLOOR PLAN MANAGEMENT

Software plug-in for floor plan management

32 ICONS | 32 FLOOR PLANS

Item no. F127TSP7L/AV

UTS V - Accessories

Item no. F127UTSVCGM Silver gray cover plate

Item no. F127UTSVCG Titanium gray cover plate

Item no. F127UTSVCN Black cover plate

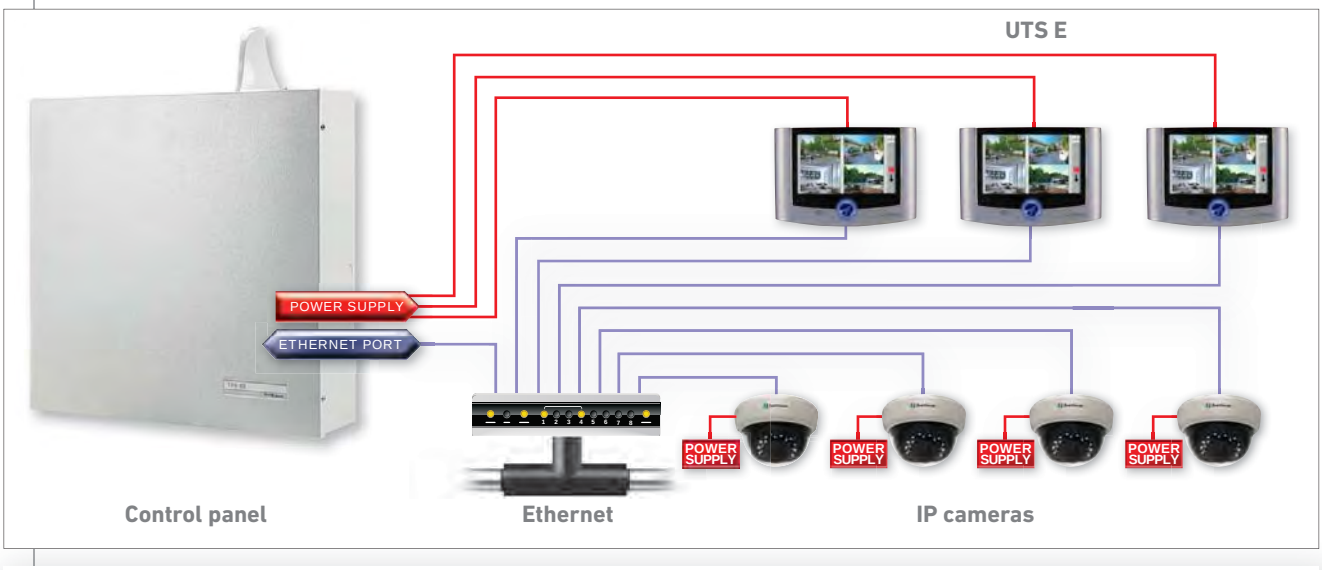
Flush mounting box - Dimensions (L x H x D) 195 x 147 x 35mm.

Item no. C210INCASSOUTS

Touch screen video consoles

UTS E

The console UTS E implements IP surveillance devices into the burglar alarm systems from Tecnoalarm. The integration of the IP surveillance devices, which are easily installed via Ethernet, permits the building of extremely flexible and top-performing systems.



UTS E - Technical and functional specifications

General features	Model	**UTS E**
	Connection	**UTP CAT 5**
IP camera management	Type of cameras	**IP**
	Video standard	**H264**
	Cameras managed	**24**
	Live streams recorded	**8**
	Cameras viewed	**24**
	Viewing mode	**Full screen/mosaic (4 live streams)**
	Viewing time	**Programmable**
	Camera association	**Zone**
	Programmable functions	**Viewing**
		Recording of clips
	Max. recording time	**30s**
	Event recording interval	**10s before**
		20s after
User interface	Screen	**Color 7" TFT multi-point capacitive touch screen**
	Resolution	**800 x 480 pixel**
	System-user interaction	**Icons**
	Voice synthesis	**✓**
	Programs managed	**32**

Floor plan 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	Flash memory	**1 Gbit**
	RAM	**1 Gbit**
	USB port	**USB type A**
	SD card	**Optional**
Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10V...15V DC**
	Stand-by consumption	**250mA @ 12V DC**
	Max. consumption	**380mA @ 12V DC**
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
Physical specifications	Environmental class	**II**
	Protection class	**IP40**
	Casing	**ASA**
	Dimensions (L x H x D)	**225 x 157 x 32mm**
	Weight	**800g**
	Operating temperature	**+5°C...+40°C**

UTS E

24 VIEWED | 8 CAMERAS RECORDING | SD CARD SLOT | CODES | 7" COLORS DISPLAY | CAPACITIVE TOUCH SCREEN | VOICE SYNTHESIS | USB PORT | 32 PROGRAMS MANAGED

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

Touch screen video console for the integration of Videoalarm IP into the burglar alarm systems from Tecnoalarm
The console permits the connection of up to 24 IP cameras via Ethernet. The cameras can be associated to the zones of the alarm system. 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. The console is able to record video clips of 30s length for 8 of the 24 cameras.
SD card slot - USB port - Stylish design - Ultra-thin casing - Surface and flush mounting – White cover plate (exchangeable)
Three models are available according to the type of connection and power supply

The console is always equipped with the floor plan management function.

32 FLOOR PLANS | 32 ICONS

UTS E POE

IP PORT POE | RJ45 INTERFACE | UTP CAT5 CONNECTION | POWER SUPPLY POE 48V | MAX CONNECTION DISTANCE 80m

IP POE (Power over Ethernet) connection for data transmission and power supply - UTP CAT 5 - RJ45 - Max. connection distance 80m

Item no. F210UTSEPOE

UTS E IDC

IP PORT | IDC 110 INTERFACE | UTP CAT5 AND POWER CONNECTION | POWER SUPPLY 12V | MAX CONNECTION DISTANCE 80m

IP connection for data transmission - Separate power cord - UTP CAT 5 - IDC 110 - Max. connection distance 80m

Item no. F210UTSEIDC

UTS E

IP PORT | RJ45 INTERFACE | UTP CAT5 AND POWER CONNECTION | POWER SUPPLY 12V | MAX CONNECTION DISTANCE 80m

IP connection for data transmission - Separate power cord - UTP CAT 5 - RJ45 - Max. connection distance 80m

Item no. F210UTSE

UTS E - Accessories

Item no. F127UTSECGM Silver gray cover plate
Item no. F127UTSECG Titanium gray cover plate
Item no. F127UTSECN Black cover plate

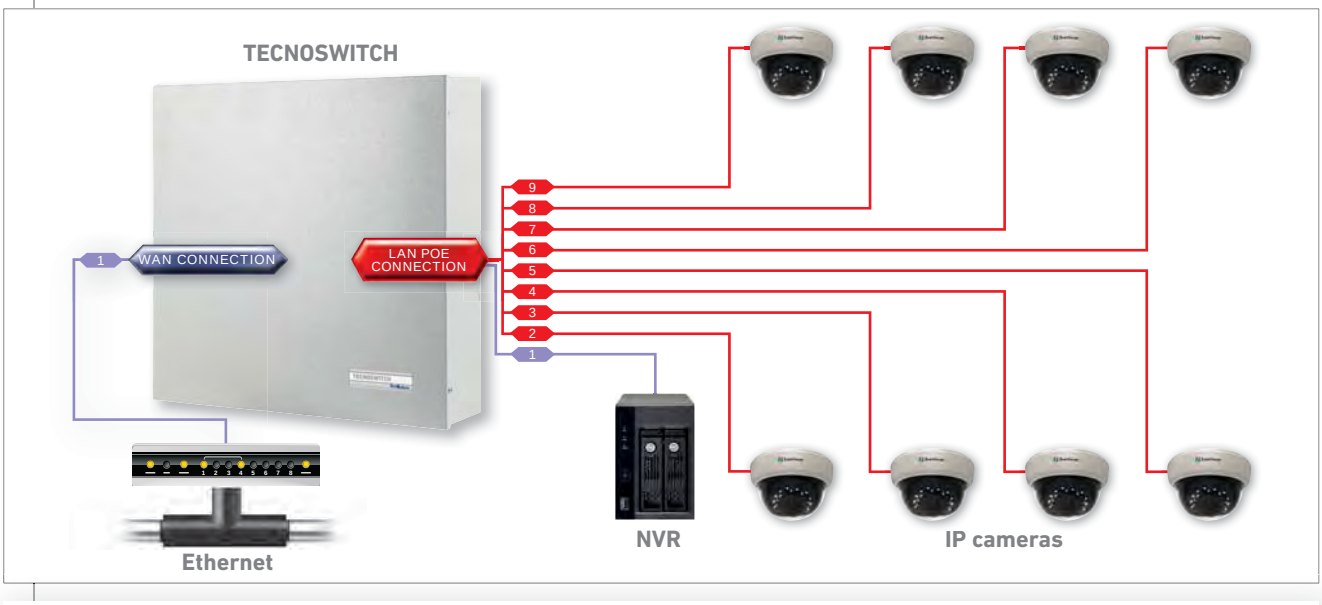
Flush mounting box - Dimensions (L x H x D) 195 x 147 x 35mm

Item no. C210INCASSOUTS

Self-powered PoE switches

TECNOSWITCH

The self-powered PoE switch permits the building of a self-configuring firewalled LAN, guaranteeing both efficiency and high speed in the management of IP devices.



TECNOSWITCH - Technical and functional specifications

General features	Model	**TECNOSWITCH**
	Description	**PoE switch**
	Functioning mode	**Stand-alone/ integrated in a system**
Hardware	RS485 serial bus	**1**
	Failure output	**Free changeover relay**
	Power supply output	**1.5A @ 12V DC**
	USB port	**USB 2.0 for HDD**
Device management	LAN devices	**Self-configuring**
Ethernet	Standard	**Fast Ethernet**
	RJ45 ports	**Standard 10/100Mbps**
	WAN ports	**1**
	LAN ports	**1+8 PoE**
	Total power PoE ports	**80W**
	Power per PoE port	**Max. 24W**
LAN diagnostics	Network address	**MAC address**
	PoE management	**Monitoring/control**
	Network statistics	**Data flow monitor**
	Cable test	**✓**
	Diagnostics	**Functioning monitor**
Connection distance	LAN (UTP CAT 5 cable)	**Max. 80m**
	LAN + PoE (UTP CAT 5 cable)	**Max. 80m**

Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
Power supply	Type	**A - modular Flyback switching**
	Operating voltage	**230V AC +/- 10% 50Hz**
	Max. consumption	**700mA AC**
	Max. output voltage	**5A @ 27.6V DC**
	Max. current available	**Max. 5A**
	Max. Ripple	**150mV p-p**
	Mains fuse	**T-1.6A**
Battery	Capacity	**2x 12V/17Ah**
	Flame class	**V-2 or higher**
	Autonomy max. charge	**4 hours**
	Release voltage	**<17.6V DC**
	Recharge time	**100% in 12h**
Electrical specifications	CPU board consumption scheda CPU	**170mA @ 27.6V DC**
	Operating voltage PoE	**44V...57V DC**
	PoE Plus	**57V DC**
Physical specifications	Environmental class	**II**
	Casing	**Metal**
	Dimensions (L x H x D)	**455 x 445 x 115mm**
	Weight	**7.7kg**
	Operating temperature	**-10°C...+55°C**
	Humidity (w/o condensation)	**93%**

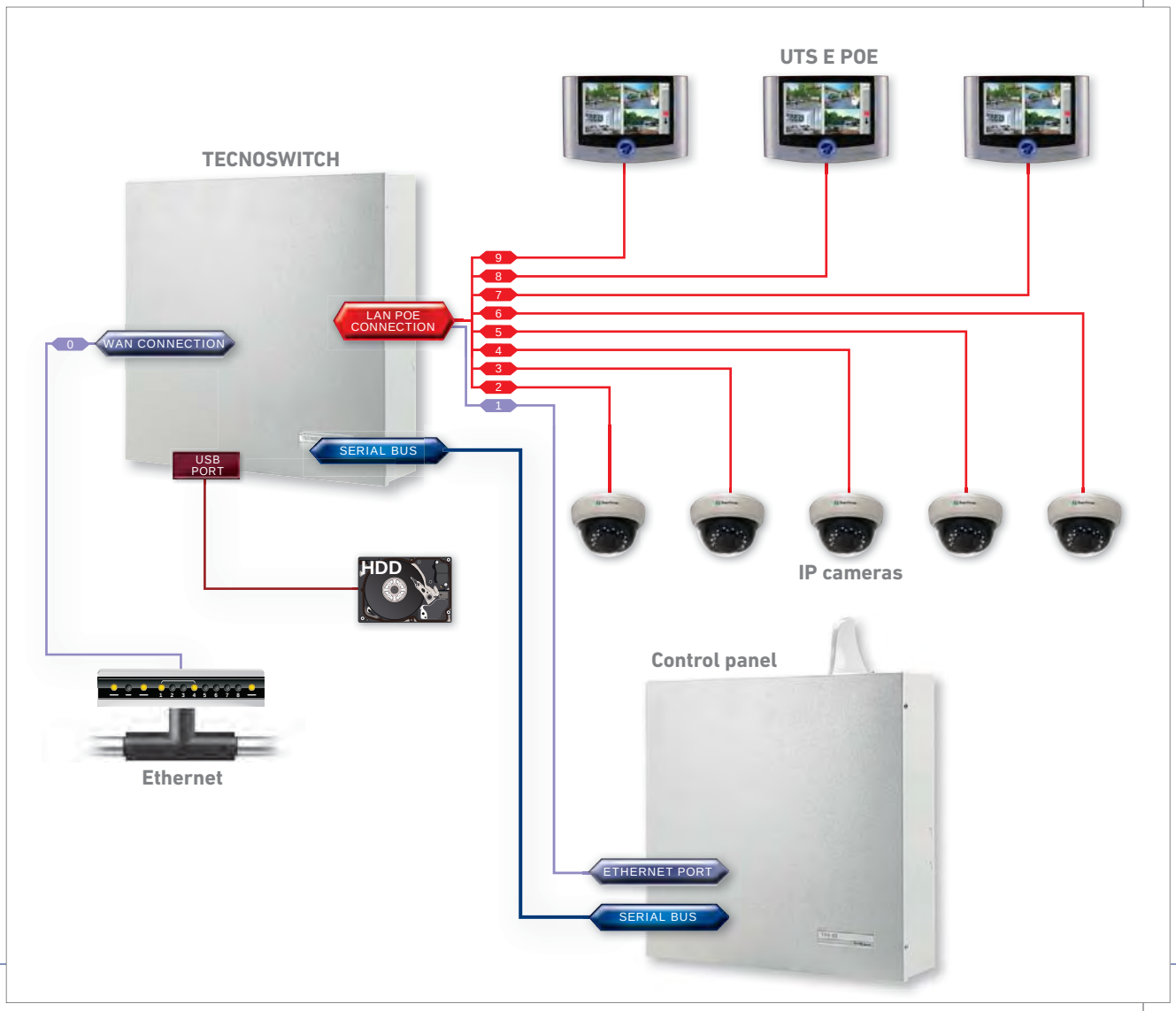
TECNOSWITCH

ETHERNET SWITCH POE | IP LAN CAMERA MANAGEMENT | 8 PORTS POE PLUS | LAN DIAGNOSE | HDD MANAGEMENT | PFC POWER FACTOR CORRECTION | POWER SUPPLY | METAL BOX

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

The self-powered and self-protected PoE switch to be used stand-alone or integrated in a burglar alarm system from Tecnoalarm
The switch provides self-detection and self-configuration of the LAN nodes. It is equipped with an RS485 port for the connection of the Tecnoalarm systems as well as a USB 2.0 port for the connection of an optional HDD for storing of the video clips recorded by the console UTS E.
It offers comprehensive diagnostic features: monitoring of power supply, battery, HDD, PoE and USB ports, tamper and consumption, self-detection of the network topology, cable test (not connected and short circuit), monitoring of data flow, management of PoE ports.
1 WAN, 9 LAN (8 PoE), RJ45, RS485, USB ports - Failure output - Flyback switching 5A power supply - 2x 12V-17Ah batteries (not included)

Item no. F210TECNOSWITCH



CONSOLE

CONTROL UNITS

A wide range of control units, which meet the highest regulation, quality and safety standards, are able to solve any application and use 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.

Code
Typing a code is something that we make every day. A personal number code permits the interactive management of our security system through the top-performing consoles from Tecnoalarm.

Transponder
The electronic key has always been the most classic and practical control device. The modern transponders from Tecnoalarm guarantee inviolability and the highest possible number of combinations of the code.

RFID card
The RFID card is practical and reliable, with a level of security that can only be guaranteed by a unique code, preprogrammed by Tecnoalarm.

Finger print
The finger print is the most personal and unique way, encoded in our hands, to authenticate ourselves. The security systems from Tecnoalarm can be controlled with simple gestures by the tip of your fingers.

Mar 28-APR-15
Feri. 17 35
Tecnoalarm

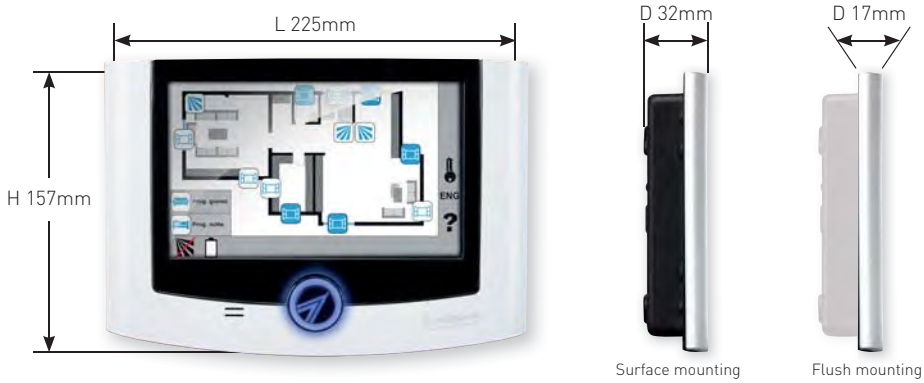
Consoles and control units

Touch screen consoles

UTS C - UTS C A

7" TFT capacitive touch screen consoles are characterized by an intuitive graphical interface with a dynamic system-user interaction through icons. They provide a bilingual voice synthesis and vocal and graphic help function. A software plug-in, preprogrammed on the model UTS C A, permits the management and customization of floor plans and the creation of efficient and customized applications. In case of alarm, the console automatically shows the corresponding floor plan, but the floor plans can also be viewed on-demand.

Approved for certified systems



UTS C - UTS C A - Technical and functional specifications

General features	Standard model	**UTS C**
	Model with floor plan management	**UTS C A**
	Address programming	**Digital**
	Connection	**RS485**
User interface	Screen	**Color 7" TFT multi-point capacitive touch screen**
	Resolution	**800 x 480 pixel**
	System-user interaction	**Icons**
	Voice synthesis	**Bi-lingual**
	Help function	**Vocal and graphic**
	Programs managed	**32**
Floor plan management UTS C A	Floor plans managed	**Max. 32**
	Icons per floor plan	**Max. 32**
	Viewing mode	**Manual/automatic**
	Graphic interface	**Programmable**
Hardware	Flash memory	**1 Gbit**
	RAM	**32 MBit**
	USB port	**USB type B**

Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10V...15V DC**
	Stand-by consumption	**90mA @ 12V DC**
	Max. consumption	**240mA @ 12V DC**
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
Physical specifications	Environmental class	**II**
	Protection class	**IP40**
	Casing	**ASA**
	Dimensions (L x H x D)	**225 x 157 x 32mm**
	Weight	**350g**
	Operating temperature	**+5°C...+40°C**

Serial BUS RS485 Connection

UTS C

CODES | 7" COLORS DISPLAY | CAPACITIVE TOUCH SCREEN | VOICE SYNTHESIS | USB INTERFACE | 32 PROGRAMS MANAGED

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

7" TFT capacitive touch screen console
The console manages two languages and provides a bi-lingual voice synthesis and vocal and graphic help function. A built-in flash memory, recognized as an external HDD by the PC, permits the storage of customized vocabularies, programmed by PC using the Tecnoalarm Tecnomsg program.
USB port - Stylish design - Ultra-thin casing - Surface and flush mounting - Antistatic ABS casing - White cover plate (exchangeable)

Item no. F127UTSC

UTS C A

CODES | 7" COLORS DISPLAY | CAPACITIVE TOUCH SCREEN | VOICE SYNTHESIS | USB PORT | 32 ICONS | 32 FLOOR PLANS | 32 PROGRAMS MANAGED

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

As UTS C but with interactive floor plan management
Each floor plan manages up to 32 icons, which can be associated to the devices of the alarm system or the navigation functions. In case of alarm, the console automatically shows the corresponding floor plan. The floor plans can also be viewed on-demand.

Item no. F127UTSCAVA

UTS C - Options

UTS FLOOR PLAN MANAGEMENT

Software plug-in for floor plan management

32 ICONS | 32 FLOOR PLANS

Item no. F127TSP7L/AV

UTS C - Accessories

Item no. F127UTSVCGM Silver gray cover plate

Item no. F127UTSVCG Titanium gray cover plate

Item no. F127UTSVCN Black cover plate

Flush mounting box - Dimensions (L x H x D) 195 x 147 x 35mm

Item no. C210INCASSOUTS

Consoles and control units

UTS 4.3 PROX

The 4.3" TFT capacitive touch screen console is characterized by an intuitive graphical interface with a dynamic system-user interaction through icons. It provides a bilingual voice synthesis function and an integrated RFID reader.

Approved for certified systems

UTS 4.3 PROX - Technical and functional specifications

General features	Model	**UTS 4.3 PROX**
	Address programming	**Digital**
	Connection	**RS485**
User interface	Screen	**Color 4.3" TFT multi-point capacitive touch screen**
	Resolution	**480 x 272 pixel**
	System-user interaction	**Icons**
	Voice synthesis	✓
	Help function	**Graphic**
	Programs managed	**15**
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**

Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10V...15V DC**
	Stand-by consumption	**80mA @ 12V DC**
	Max. consumption	**160mA @ 12V DC**
Physical specifications	Environmental class	**II**
	Protection class	**IP40**
	Casing	**ASA**
	Dimensions (L x H x D)	**154 x 104.6 x 23mm**
	Weight	**230g**
	Operating temperature	**+5°C...+40°C**
Conformity	Standards	**EN 50131-3**
	Notified body	**IMQ**

Serial BUS RS485 Connection

UTS 4.3 PROX

Approved for certified systems

CODES | PROX KEY READER | 4.3" COLORS DISPLAY | CAPACITIVE TOUCH SCREEN | VOICE SYNTHESIS | 15 PROGRAMS MANAGED

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

4.3" TFT capacitive touch screen console
The console is equipped with an integrated reader for PROX KEY transponders and a voice synthesis function which uses the vocabulary loaded on the alarm system.
Stylish design - Ultra-thin casing - Surface mounting - Antistatic ABS casing

Item no. F127UTS43PROX White color

Item no. F127UTS43PROXGR Charcoal gray color

Serial BUS RS485 Connection

Consoles

LCD300/S

Approved for certified systems

CODES | VOICE SYNTHESIS | 15 PROGRAMS MANAGED

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

Console with backlit 2x16 characters LCD and a voice synthesis function which uses the vocabulary loaded on the alarm system
Management of 15 programs - Connection via RS485 serial bus - Surface mounting - Design by Pininfarina - Antistatic ABS casing - Dimensions (L x H x D) 120 x 175 x 46mm - White color

Item no. F127LCD300S

LCDPROX1

Approved for certified systems

CODES | PROX KEY READER | 8 PROGRAMS MANAGED

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

Console with backlit graphic LCD and a reader for PROX KEY transponders PROX KEY
Management of 8 programs - Connection via RS485 serial bus - Surface mounting - Antistatic ABS casing - Dimensions (L x H x D) 150 x 119 x 35mm - White color

Item no. F127LCDPROX1

LCD020

CODES | 4 PROGRAMS MANAGED | 20 ZONES MANAGED

Compatible systems: TP4-20 - TP4-20 GSM

Console with backlit 2x16 characters LCD
Management of 4 programs - Viewing of the status of 20 zones - Connection via RS485 serial bus - Surface mounting - Antistatic ABS casing - Dimensions (L x H x D) 150 x 119 x 35mm - White color.
N.B. To be used alternatively to LCD012 - LED06

Item no. F127LCD020

LCD012

CODES | 4 PROGRAMS MANAGED | 12 ZONES MANAGED

Compatible systems: TP4-20 - TP4-20 GSM

Console with backlit 2x16 characters LCD
Management of 4 programs - Viewing of the status of 12 zones - Connection via RS485 serial bus - Surface mounting - Antistatic ABS casing - Dimensions (L x H x D) 150 x 119 x 35mm - White color
N.B. To be used alternatively to LCD020

Item no. F127LCD012

LED06

CODES | 4 PROGRAMS MANAGED | 6 ZONES MANAGED

Compatible systems: TP4-20 - TP4-20 GSM

Console
Management of 4 programs - Viewing of the status of 6 zones - Connection via RS485 serial bus - Surface mounting - Antistatic ABS casing - Dimensions (L x H x D) 140 x 80 x 28mm - White color
N.B. To be used alternatively to LCD020

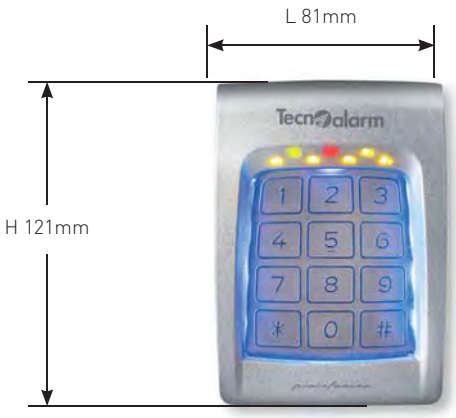
Item no. F127LED06

Outdoor keypads

DIGITEX

Outdoor keypad with touch-sensitive steal membrane
Grazing keypad light generated by LED light strips - Optical and acoustic system status signaling through buzzer and 7 signaling LED - Management of 4 programs - Connection via RS485 serial bus - Surface mounting - Prewired connection cable - Waterproof and vandal-proof aluminum die cast casing - Design by Pininfarina - IP65 - Dimensions (L x H x D) 81 x 121 x 24mm - Varnished aluminum

Approved for certified systems



Surface mounting

DIGITEX - Technical and functional specifications

General features	Model	**DIGITEX**
	Address programming	**Digital**
	Connection	**RS485**
	Connection cable	**6m prewired**
	Keypad	**Touch-sensitive steal membrane**
	Optical system status signaling	**7 LED**
	Acoustic system status signaling	**Buzzer**
	Keypad light	**LED light strips - Grazing light**
	Programs managed	**4**
Anti-tamper protection	Anti-opening and anti-detachment	**Magnetic - reed switch**
	Anti-magnete	**Magnetic - reed switch**
	Casing	**Vandal-proof**

Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10V...15V DC**
	Stand-by consumption	**10mA @ 12V DC**
	Max. consumption	**136mA @ 12V DC**
Physical specifications	Environmental class	**IV**
	Protection class	**IP65**
	Casing	**Al**
	Dimensions (L x H x D)	**81 x 121 x 24mm**
	Weight	**510g**
	Operating temperature	**-25°C...+60°C**
	Humidity (w/o condensation)	**10%...93%**

Serial BUS RS485 Connection

DIGITEX

CODE | CAPACITIVE TOUCH | BURGLARY | VANDAL | 4 PROGRAMS MANAGED | IP65

Compatible systems: TP4-20 - TP4-20 GSM - TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

Item no. F103DIGITEX

Serial BUS RS485 Connection

Access Point Readers

APR CARD

CARD READER | 3 PROGRAMS MANAGED

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

Reader for the RFID cards PERSONAL SECURITY CARD and KEY FOB - System status signaling by LED - Management of 3 programs - Connection via RS485 serial bus - Surface mounting - Antistatic ABS casing - Dimensions (L x H x D) 91 x 138 x 54mm

Item no. F103APRCARD/G Gray casing

Item no. F103APRCARD/N Black casing

Item no. F103APRCARD/B White casing

APR FINGER

ANTI-SPOOFING FAKE FINGER | FINGER PRINT READER | 3 PROGRAMS MANAGED | USB PORT | 100 FINGER PRINTS | PRIVACY PROTECTION

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

Reader for finger prints - System status signaling by LED - Management of 100 finger prints - Management of 3 programs - Connection via RS485 serial bus - Surface mounting - Antistatic ABS casing - Dimensions (L x H x D) 91 x 138 x 54mm

Item no. F103APRFIN/G Gray casing

Item no. F103APRFIN/N Black casing

Item no. F103APRFIN/B White casing

APR FINGER-CARD

ANTI-SPOOFING FAKE FINGER | FINGER PRINT READER | CARD READER | 3 PROGRAMS MANAGED | USB PORT | 100 FINGER PRINTS | PRIVACY PROTECTION

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

Reader for finger prints and the RFID cards PERSONAL SECURITY CARD and KEY FOB - Programmable identification mode (independent/combined) - System status signaling by LED - Management of 100 finger prints - Management of 3 programs - Connection via RS485 serial bus - Surface mounting - Antistatic ABS casing - Dimensions (L x H x D) 91 x 138 x 54mm

Item no. F103APRFINCAR/G Gray casing

Item no. F103APRFINCAR/N Black casing

Item no. F103APRFINCAR/B White casing

RFID cards

PERSONAL SECURITY CARD

RFID card for APR CARD and APR FINGER-CARD - Unique preprogrammed code - Unduplicatable nor reprogrammable - Credit card format - Gray color with graphic design (sold in packs of 10).

Item no. F103CARD

PERSONAL SECURITY CARD

White color

Item no. F103CARD/B

KEY FOB

RFID-MIFARE key fob for APR CARD and APR FINGER-CARD - Unique preprogrammed code - Unduplicatable nor reprogrammable (sold in packs of 10).

Item no. F103KEYFOB

APR FINGER - APR FINGER-CARD - Accessories

APR USB CABLE

Type A mini USB cable for programming of APR FINGER and APR FINGER-CARD

Item no. F130CAVOMINIUSB

Transponder readers

ATPROX

The ATPROX transponder readers from Tecnoalarm guarantee inviolability thanks to transponders with the highest possible number of different codes.

N.B. The ATPROX transpondera readers can only be used in combination with a transnsponder interface connected to or integrated on the control panel.

PROX KEY READER

3 PROGRAMS MANAGED

ATPROX/I

Approved for certified systems

Reader for PROXKEY transponders - Flush mounting module for Vimar Idea* switches - Black color

Item no. F103ATPROX/I

ATPROX/L

Approved for certified systems

Reader for PROXKEY transponders - Flush mounting module for BTicino Living* switches - Black color

Item no. F103ATPROX/L

ATPROX/LINT

Approved for certified systems

Reader for PROXKEY transponders - Flush mounting module for BTicino Living International* switches - Black color

Item no. F103ATPROX/LINT

ATPROX/LINB

Approved for certified systems

Reader for PROXKEY transponders - Flush mounting module for BTicino Living International* switches - White color

Item no. F103ATPROX/LINB

ATPROX/MN

Approved for certified systems

Reader for PROXKEY transponders - Flush mounting module for BTicino Magic* switches - Black color

Item no. F103ATPROX/MN

ATPROX/M

Approved for certified systems

Reader for PROXKEY transponders - Flush mounting module for BTicino Magic* switches - White color

Item no. F103ATPROX/M

ATPROX/A

Approved for certified systems

Reader for PROXKEY transponders - Flush mounting module for BTicino Axolute* switches - White color

Item no. F103ATPROX/A

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

Transponders

PROXKEY

Approved for certified systems

Transponder with preprogrammed code - Reprogrammable and duplicatable with PROX PROGRAMMER - Gray color

Item no. F103PROXKEY

PROXKEY HS

Approved for certified systems

Transponder with unique preprogrammed code - Unduplicatable nor reprogrammable - Blue color

Item no. 103PROXKEYHS

PROXKEY - Accessories

PROX PROGRAMMER

Programmer for reprogramming and duplicating of PROXKEY transponders

Item no. F103PROXPROGRAM

Transponder interfaces and stand-alone readers

Serial BUS RS485 Connection

PROX K6N

PROX KEY READER

6 PROGRAMS MANAGED

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

Stand-alone transponder reader with function keys - System status signaling by LED - Management of 6 programs - Connection via RS485 serial bus - Surface mounting - Antistatic ABS casing - Dimensions (L x H x D) 140 x 80 x 28mm - White color

Item no. F127PROXK6N

TP SKN

Approved for certified systems

KEY INTERFACE

4 READERS

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

Interface for ATPROX transponder readers - Management of 4 readers - Connection via RS485 serial bus - Surface mounting - Antistatic ABS casing - Dimensions (L x H x D) 63 x 101 x 25mm - White color

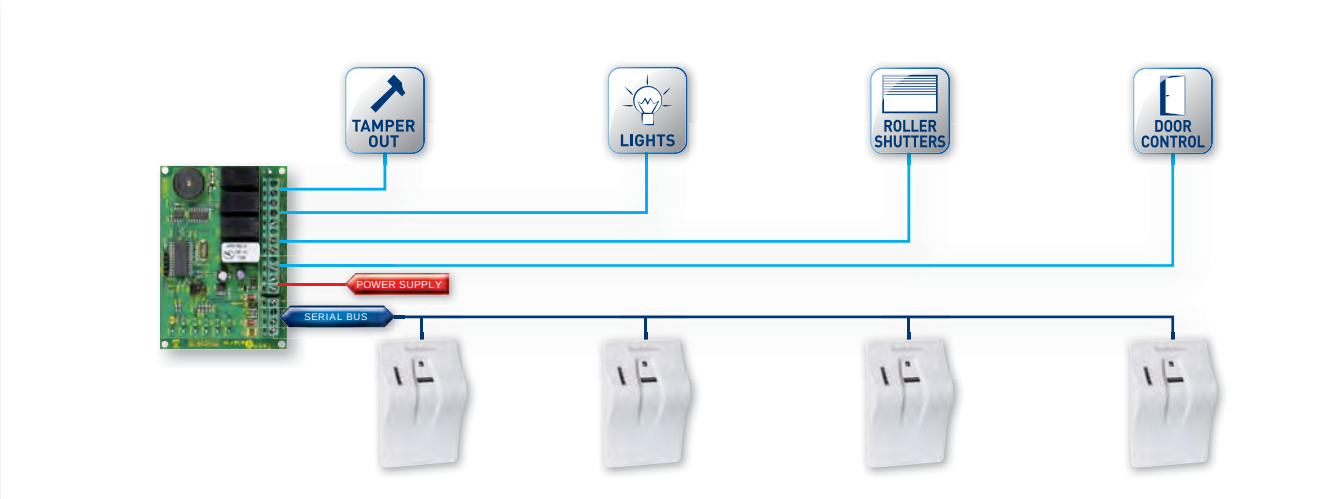
Item no. F127TP-SKN

Consoles and control units

Stand-alone relay control systems

The stand-alone relay control system is composed of one relay board FINGER KEY and up to 4 biometric finger print readers APR FINGER. The system permits the management of 3 independent electrical installations with the tip of a finger. Great practicality is combined with efficient security thanks to the individual uniqueness of the finger prints, ensuring that only the authorized users have access to the system.

FINGER KEY		4 UNITS MANAGED · 3 OUTPUTS
	Electronic board with 3 programmable relay outputs for the connection of up to 3 electrical installations The relays can be controlled through max. 4 biometric finger print readers type APR FINGER. Dimensions (L x H x D) 70 x 100 x 20mm, ABS casing (optional). *N.B. Configuration software APRCONF included.*	
	Item no. F103APRFINKEY	
APR FINGER		FINGER PRINT READER · USB PORT · ANTI-SPOOFING FAKE FINGER · 100 FINGER PRINTS · PRIVACY PROTECTION
	Reader for finger prints - System status signaling by LED - Management of 100 finger prints - Management of 3 programs - Connection via RS485 serial bus - Surface mounting - Antistatic ABS casing - Dimensions (L x H x D) 91 x 138 x 54mm	
	Item no. F103APRFIN/G Gray casing	
	Item no. F103APRFIN/N Black casing	
	Item no. F103APRFIN/B White casing	



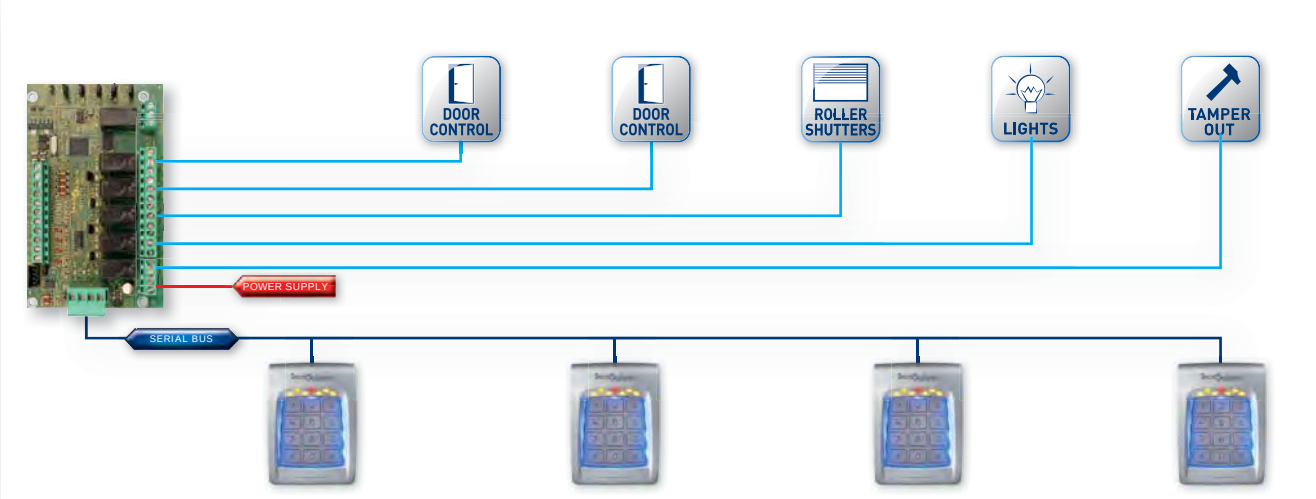
APR FINGER - Accessories

	APR USB CABLE Type A mini USB cable for programming of APR FINGER and APR FINGER-CARD **Item no. F130CAVOMINIUSB**

The stand-alone relay control system is composed of one relay board DIGITEX KEY and up to 4 DIGITEX keypads for outdoor mounting. The system permits the management of 4 independent electrical installations by code, even from the outdoors. The system offers a practical and secure solution for the management of your home automation.

DIGITEX KEY	4 UNITS MANAGED · 5 OUTPUTS 4A
	Electronic board with 5 programmable relay outputs for the management of up to 4 electrical installations The relays can be controlled through max. 4 DIGITEX keypads. Dimensions (L x H x D) 127 x 77 x 30mm, ABS casing (optional) **Item no. F103DIGITEXKEY**

DIGITEX	CODE · CAPACITIVE TOUCH · BURGLARY · VANDAL · IP65
	Outdoor keypad with touch-sensitive steal membrane Grazing keypad light generated by LED light strips - Optical and acoustic system status signaling through buzzer and 7 signaling LED - Management of 4 programs - Connection via RS485 serial bus - Surface mounting - Prewired connection cable - Waterproof and vandal-proof aluminum die cast casing - Design by Pininfarina - IP65 - Dimensions (L x H x D) 81 x 121 x 24mm - Varnished aluminum **Item no. F103DIGITEX**



DIGITEX KEY - Accessories

	C90
	ABS casing - Dimensions (L x H x D) 165 x 110 x 41mm - White color **Item no. C110C90**

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 on the serial bus allow to locate the inputs and the outputs of the system in the most comfortable positions, where actually necessary, favoring a simpler and more economical routing of the connecting cables.

Input expansion modules
The range of input expansions is composed of five models, equipped with 4 to 8 inputs for conventional or Zone Bus detectors and 1 to 4 programmable alarm outputs.

Output expansion modules
The range of output expansions includes models which permit the creation of signaling panels with respectively 32 open-collector outputs and signaling LED, and those which provide programmable relay outputs for the control of external devices.

Serial bus extension modules
The serial bus extensions allow to increase the maximum length of the serial bus and make star connections. The fiber optic converter permits the extension of the serial bus with fiber optic cables.

INPUTS
OUTPUTS
RS485 LINES
LOOPS
RX RS485
POWER
RX FIBER OPTIC
Tecnoalarm
RS485 - CONVERTER - FIBER OPT
SPEEDS-PLUS/A

Expansion modules

Serial BUS RS485 Connection

EXPANSION MODULES

Input expansions

SPEED ALM8 PL

CSV | RDV | ZONE BUS DETECTORS | 8 CONVENTIONAL DETECTORS | 4 OUTPUTS | POWER SUPPLY | 13.8V 1.8A | ABS BOX

Compatible systems: TP4-20 - TP4-20 GSM - TP8-28 -TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

Expansion module with 8 inputs for the connection of RDV® and Zone Bus detectors from Tecnoalarm as well as conventional detectors - 2 relay outputs - 2 programmable open-collector outputs - 1.8A switching power supply - 12V/7Ah battery - Connection via RS485 serial bus - Antistatic ABS casing - Design by Pininfarina - Dimensions (L x H x D) 350 x 285 x 93mm

Item no. F101SPEEDALM8PL

SPEED 8

Approved for certified systems | RDV | ZONE BUS DETECTORS | 8 CONVENTIONAL DETECTORS | 2 OUTPUTS

Compatible systems: TP4-20 - TP4-20 GSM - TP8-28 -TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

Expansion module with 8 inputs for the connection of RDV® and Zone Bus detectors from Tecnoalarm as well as conventional detectors - 2 programmable open-collector outputs - Connection via RS485 serial bus - Dimensions (L x H) 124 x 68mm - ABS casing (optional).
N.B. Compatible casings C100P and C90

Item no. F101SPEED8

SPEED 4-14OC

RDV | ZONE BUS DETECTORS | 4 CONVENTIONAL DETECTORS | 14 OUTPUTS

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

Expansion module with 4 inputs for the connection of RDV® and Zone Bus detectors from Tecnoalarm as well as conventional detectors - 14 programmable open-collector outputs - Connection via RS485 serial bus - Dimensions (L x H) 93 x 59mm - ABS casing (optional)
N.B. Compatible casing C80

Item no. F101SPEED414OC

SPEED 4

Approved for certified systems | RDV | ZONE BUS DETECTORS | 4 CONVENTIONAL DETECTORS | 1 OUTPUT

Compatible systems: TP4-20 - TP4-20 GSM - TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

Expansion module with 4 inputs for the connection of RDV® and Zone Bus detectors from Tecnoalarm as well as conventional detectors - 1 programmable open-collector output - Connection via RS485 serial bus - Dimensions (L x H) 98 x 68mm - ABS casing (optional)
N.B. Compatible casings C100P and C90

Item no. F101SPEED4

SPEED 8 STD

Approved for certified systems | 8 CONVENTIONAL DETECTORS

Compatible systems: TP4-20 - TP4-20 GSM - TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

Expansion module with 8 inputs for the connection of conventional detectors - Connection via RS485 serial bus - Dimensions (L x H) 98 x 68mm - ABS casing (optional)
N.B. Compatible casings C100P and C90

Item no. F101SPEED8STD

EXPANSIONS MODULES - Accessories

C100P

ABS casing - Design by Pininfarina - Dimensions (L x H x D) 270 x 156 x 68mm - White color

Item no. C110C100P

C90

ABS casing - Dimensions (L x H x D) 165 x 110 x 41mm - White color

Item no. C110C90

Serial BUS RS485 Connection

Output expansions

ESP 8RP

8 OUTPUTS 4A

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

Expansion module with 8 power relay outputs with potential-free change-over contacts (max. 250V AC @ 4A) - Functions programmable by PC - Address cloning possible - Connection via RS485 serial bus - Dimensions (L x H x D) 137 x 110 x 16mm

Item no. F127ESP8RP

ESP 8RSP

7+1 OUTPUTS 0,3A 4A

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

Expansion module with 7 signal relay outputs with potential-free change-over contacts (max. 24V DC @ 0.3A) and 1 power relay output (max. 250V AC @ 4A) - Functions programmable by PC - Address cloning possible - Connection via RS485 serial bus - Dimensions (L x H x D) 137 x 91 x 16mm

Item no. F127ESP8RSP

ESP 4RS

4 OUTPUTS 0,3A

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

Expansion module with 4 signal relay outputs with potential-free change-over contacts (max. 24V DC @ 0.3A) - Functions programmable by PC - Address cloning possible - Connection via RS485 serial bus - Dimensions (L x H x D) 137 x 80 x 16mm

Item no. F127ESP4RS

ESP32-OCN

Approved for certified systems

32 OUTPUTS

Compatible systems: TP4-20 - TP4-20 GSM - TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

Expansion module with 32 open-collector outputs for system status signaling - Functions programmable by PC - Connection via RS485 serial bus - Dimensions (L x H) 97 x 85mm - ABS casing (optional)
N.B. Compatible casings C100P and C90

Item no. F127ESP32OCN

SINOTTICO 32N

32 LEDS

ABS BOX

Compatible systems: TP4-20 - TP4-20 GSM - TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

Expansion module with 32 LED for system status signaling - Functions programmable by PC - Connection via RS485 serial bus - ABS casing - Dimensions (L x H x D) 150 x 118 x 35mm

Item no. F127SINOTTICON

EXPANSIONS MODULES - Accessories

C80

ABS casing - Dimensions (L x H x D) 140 x 92 x 38mm - White color

Item no. C110C80

Serial extension modules

Serial BUS RS485 Connection

FIBER OPTIC CONVERTER

RS485 FIBER-OPTIC CONVERTER | POINT TO POINT CONNECTION 2KM | RING CONNECTION 4KM

Compatible systems: TP4-20 -TP4-20 GSM - TP8-28 - TP8-28 GSM -TP10-42 - TP8-88 - TP20-440

RS485-fiber optic converter for the long-distance serial data transmission over fiber optic cables The converter can be used for point-to-point connections, with a 2km maximum length for each track, or loop connections, with 4km maximum loop length. The converter is especially indicated for data transmission in particularly disturbed areas, outdoor applications subject to electrostatic discharges and elimination of ground loops.
Master/slave mode - Functional settings by dip-switch - 3 signaling LED (power supply, data reception via fiber optics, data reception via serial bus) - ABS casing - White color

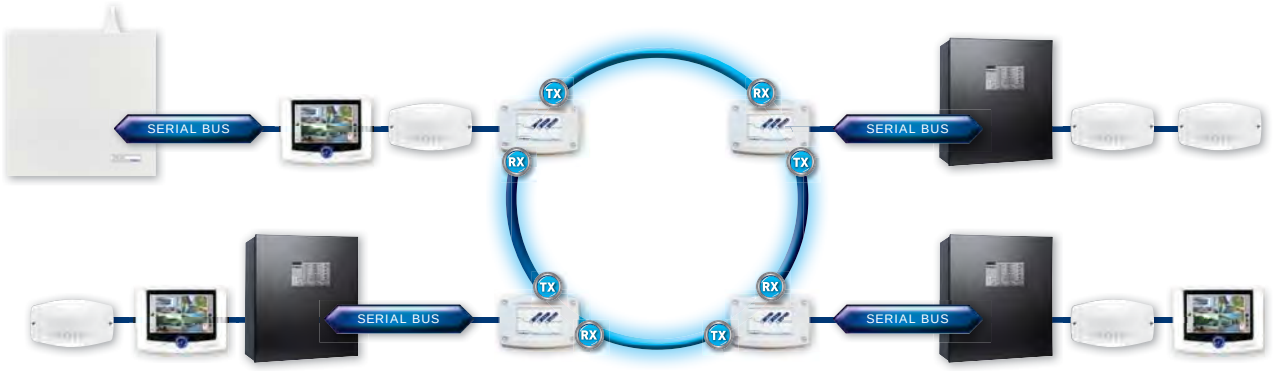
Item no. F130CONVFIBRA

FIBER OPTIC CONVERTER - Technical and functional specifications

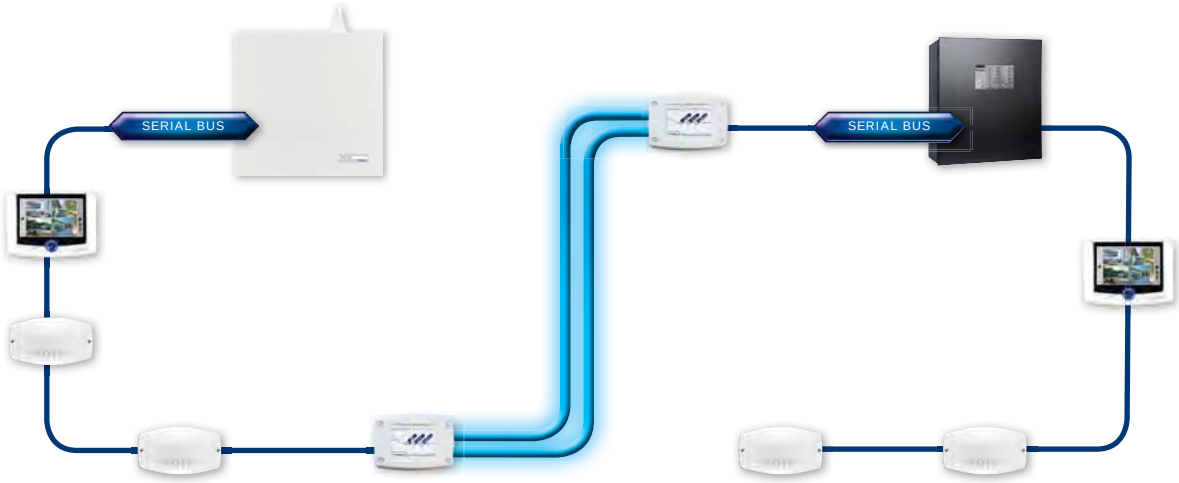
General features	Description	**Fiber optic converter**
	Data input/output interface	**RS485**
		Fiber optics
Baud rate	Tecnoalarm RS485 serial bus	**38,400/9,600bps**
	Tecnoalarm Sensor Bus	**38,400bps**
	Tecnoalarm Sync Bus	**300bps (Explorer II)**
		Square wave (Beamtower)
Fiber optics	Fiber optics cable	**50/125µm or 6.5/125µm**
	Wave length	**850nm**
	Connection	**ST connector**
	Connection type	**Point-to-point (2km per track)**
		Loop (4km)
	Tecnoalarm Sync Bus (Beamtower)	**250m per track**

Status signaling	Power supply	✓
	RX RS485	✓
	RX Fiber optic	✓
Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**8V...31V DC**
	Rated onsumption	**50mA @ 12V DC**
Physical specifications	Environmental class	**II**
	Protection class	**IP42**
	Casing	**ABS**
	Dimensions (L x H x D)	**140 x 92 x 38mm**
	Weight	**130g**
	Operating temperature	**-20°C...+70°C**

Loop connection



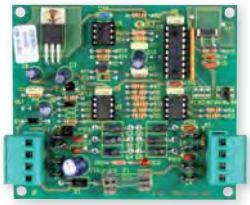
Point-to-point connection



Serial BUS RS485 Connection

SPEED RS485

1 RS485 LINE



Compatible systems: TP4-20 - TP4-20 GSM - TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

Extension module with 1 input and 1 protected output for the extension and the branching of the RS485 serial bus - 1 star connection with 1km track length - Programmable baud rate - Dimensions (L x H) 97 x 85mm - ABS casing (optional)
N.B. Compatible casings C100P and C90

Item no. F127SPEEDRS485

STAR RS485

6 RS485 LINES | 3 LOOPS

Compatible systems: TP4-20 - TP4-20 GSM - TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

Extension module with 1 input and 6 protected outputs for the branching of the RS485 serial bus - 6 star connections with 1km track length per branch - 3 loop connections of 800 meters length per loop - Programmable baud rate - Dimensions (L x H) 176 x 74mm - ABS casing (optional)
N.B. Compatible casing C100P

Item no. F127STAR485

EXPANSIONS MODULES - Accessories

C100P

ABS casing - Design by Pininfarina - Dimensions (L x H x D) 270 x 156 x 68mm - White color

Item no. C110C100P

C90

ABS casing - Dimensions (L x H x D) 165 x 110 x 41mm - White color

Item no. C110C90

RSC® TECHNOLOGY

Remote Sensitivity Control

RSC® (Remote Sensitivity Control) technology is an innovative management platform by which the central monitoring station (CMS) and 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 which allow to verify and maintain the smooth functioning 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 functioning parameters can be made either locally or remotely using the Tecnoalarm programming software.

Hardware coherence control
The Hardware coherence control tool analyzes the RSC® devices and draws a system overview which contains all the logical and functional parameters.

Network analysis
The Network analysis tool constantly monitors all the system's communication buses, Serial Bus, Sensor Bus and Siren Bus, and verifies the correctness of the exchanged data.

Barrier 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.

Functioning monitor
The Functioning monitor tool permits the real time control of the RSC® detectors functioning.

Alarm graphs
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 functioning, 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 window
The possibility of monitoring the functional parameters of the devices connected to the serial bus allows preventive maintenance and the prevention of failures.

To deepen the issue refer to the Tecnoalarm publication "Guide to the RSC® Technology".

RSC® Technology

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.

Documentation and support

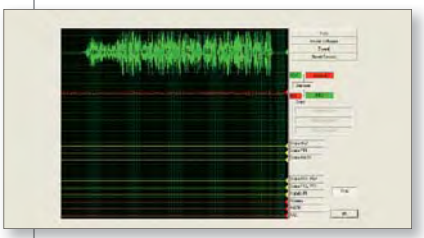
As prescribed by the European standards, on delivery of the installation, the installer must issue a document which summarizes the composition of the system and certifies the efficiency and consistency of the installed devices with the project. The system overview is easier to draw with the Hardware coherence control tool of the Tecnoalarm software. In the event of an alarm, the installer can give the user precise answers supported by data and alarm graph from the event memory.

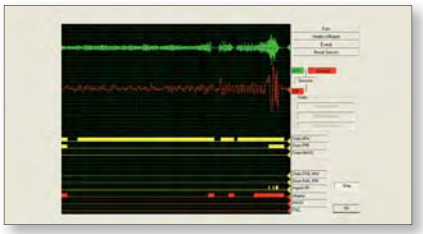
Installation

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 control 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 self test

The technician of the installation company can verify 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 norms can be made remotely. The self test functions of the RSC® devices deserve particular attention. The self-powered siren, for instance, automatically check the status of the battery, horn, flashlight and tamper protections.





RSC® LICENSE	7	The RSC® license, identified by the key 7 in the software info window, permits programming and management of the RSC® devices. The license is available for the following software: Programming, Remote Management and TCP/IP.	PROGRAMMING	REMOTE MANAGEMENT	TCP/IP

Input expansions

The versatile and modular structure can be considered an intrinsic characteristic of the Tecnoalarm systems, characteristic which the RSC® range of the input expansions fully meet. The range includes three models able to satisfy any installation requirement and guarantee an efficient use of the system's RSC® resources.

Serial BUS RS485 Connection

SPEED ALM8 PLUS

CSV | RDV | 8 SENSOR BUS DETECTORS | SIREN BUS CONNECTION | 4 OUTPUTS | POWER SUPPLY | 13.8V 1.8A | ABS BOX

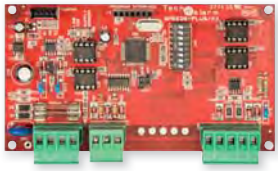
Compatible systems: TP8-28 - TP8-28 GSM -TP10-42 - TP8-88 -TP20-440

Expansion module with 4 Sensor Bus ports for the connection of 8 RSC® detectors from Tecnoalarm - 1 Siren Bus port for the connection of RSC® sirens - 4 programmable outputs - 1.8A switching power supply - 12V/7Ah battery - Connection via RS485 serial bus - Antistatic ABS casing - Design by Pininfarina - Dimensions (L x H x D) 350 x 285 x 93mm

Item no. F101SPEALM8PLUS

SPEED 8 PLUS

Approved for certified systems | RDV | 8 SENSOR BUS DETECTORS | 2 OUTPUTS



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

Expansion module with 1 Sensor Bus port for the connection of 8 RSC® detectors from Tecnoalarm - 2 programmable outputs - Connection via RS485 serial bus - Dimensions (L x H) 124 x 68mm - ABS casing (optional)
N.B. Compatible casings C100P and C90

Item no. F101SPEED8PLUS

SPEED 4 PLUS

Approved for certified systems | RDV | ZONE BUS DETECTORS | 4 SENSOR BUS DETECTORS | 4 CONVENTIONAL DETECTORS | 1 OUTPUT

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

Expansion module with 1 Sensor Bus port for the connection of RSC® detectors from Tecnoalarm and 4 inputs for the connection of RDV® and Zone Bus detectors from Tecnoalarm as well as conventional detectors - 1 programmable output - Connection via RS485 serial bus - Dimensions (L x H) 124 x 68mm - ABS casing (optional)
N.B. Compatible casings C100P and C90

Item no. F101SPEED4PLUS

EXPANSIONS MODULES - Accessories

C100P

ABS casing - Design by Pininfarina - Dimensions (L x H x D) 270 x 156 x 68mm - White color

Item no. C110C100P

C90

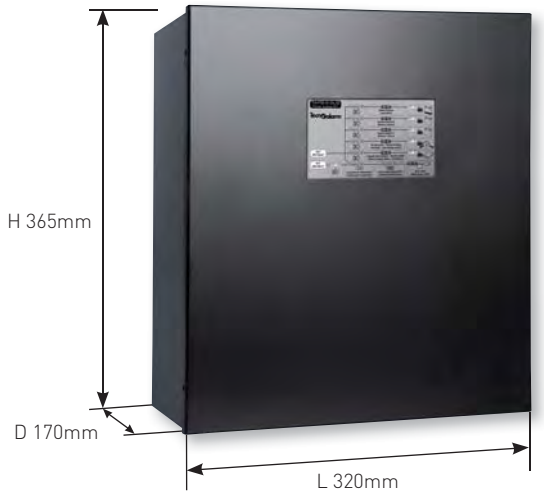
ABS casing - Dimensions (L x H x D) 165 x 110 x 41mm - White color

Item no. C110C90

Power supplies

TAPS-8 BUS

The TAPS-8 BUS is a switching Fly-back power supply, which is connected via serial bus to the Tecnoalarm systems.
The power supply supports the RSC® technology and complies with the European Standard EN 50131-6, security grade 2 or 3 (depending on the connected batteries and the degree of remote control used).
It provides 1 Siren Bus port for the connection of RSC® sirens and 4 programmable outputs.
The battery test is performed either automatically or manually and provides the automatic disconnection of the batteries in case of deep discharge. Detailed status signaling is available through 6 LED on the front panel.
Max. output current 8A @13.8V DC - 2x 12V/17Ah batteries - Metal casing - Black color



EN 50131-1 COMPLIANT

CERTIFIED EN 50131-1 EN 50131-6 | RSC | DEVICE WINDOW | SIREN BUS | 4 OUTPUTS | 13.8V 8A | PFC POWER FACTOR CORRECTION | SELF TEST | METAL BOX

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

TAPS-8 BUS

Item no. F107TAPS-8BUS

TAPS-8 BUS - Technical and functional specifications

General features	Type	**8A/13.8V DC type A**
System features	RS485 serial bus	**2**
	Baud rate	**38,400bps**
	Outputs	**4 programmable**
Electrical output specifications	Power supply outputs	**4 parallel - 2 serial**
	Output voltage	**12.5V...13.8V DC**
	Max. ripple	**<50mV p-p**
	Available current	**1.1A @13.8V DC per output**
	Battery recharge current	**Max. 850mA**
	Current available for loads	**Max. 5.5A**
	Overvoltage signal	**>16V +/- 10%**
	Overcharge signal	**1 LED per output**
Self test and failure signals	Tamper	✓
	Power supply lost	✓
	Power supply failure	✓
	Fuse failure	✓
	Power supply failure (voltage out of range)	✓
	Power supply overcharge (low voltage)	✓
	Low battery	✓
	Failure battery 1	✓
	Failure battery 2	✓
	Battery disconnection	✓
Signaling LED	Low battery	✓
	Failure battery 1	✓
	Failure battery 2	✓
	Overcharge	✓
	Power supply failure	✓
	Power supply status	✓

Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
External power supply	Type	**8A/14.4V DC switching Fly-back**
	Operating voltage	**230V AC +10/-15% 50Hz**
	Max. consumption	**600mA AC**
Batteries (Storage Device)	Capacity	**2x 12V/17Ah**
	Battery test	**Automatic/manual**
	Low battery threshold	**10.8V DC**
	Cut-off voltage	**<8.8V DC**
	Charging time	**80% ca. 19h (2 batteries of 17Ah)**
	Autonomy (Grade 2)	**12h (2.83Ah*)**
	Autonomy (Grade 3)	**60h (0.56Ah*)**
	Autonomy (Grade 3 remotely controlled)	**30h (1.12Ah*)**
Physical specifications	Environmental class	**II**
	Casing	**Metal**
	Dimensions (L x H x D)	**320 x 365 x 170mm**
	Weight	**5.8kg**
	Operating temperature	**-10°C...+55°C**
Conformity	Standard	**EN 50131-6**
	Security grade	**2 or 3******
	Notiflied body	**IMQ**

** Available current for loads in case of power failure*
*** Depending on the connected batteries and the degree of remote control used*

RSC® Technology

Dual technology for indoor use

TWINTEC BUS - TWINTEC MASK BUS

In the design of these detectors, Tecnoalarm has leveraged all its experience. The sophisticated digital processing of the signals detected by the infrared and microwave sensors permits a sure discrimination of the alarms. The AND and WALK detection logics, combined with the RDV® technology, are only some of the many programmable functioning parameters. The self test and the temperature compensation functions complete a set of sophisticated diagnostic functions. The detector TWINTEC MASK BUS is equipped with an antimasking protection, which, in the event of a masking attempt, induces the detector automatically to adopt the Walk logic.

EN 50131-1 COMPLIANT

TWINTEC BUS - TWINTEC MASK BUS - Technical and functional specifications

Detection features	Microwave frequency	**10.525GHz***
	Sensitivity	**Programmable (5 settings)**
	Response time	**Programmable (4 settings)**
	Pulse count	**Programmable (2 settings)**
	Infrared beams	**29**
	Levels (infrared beams)	**4**
	Max. range	**18m**
Detection logics	AND	**IR + MW**
	OR**	**IR or MW**
	WALK	**IR + MW or MW + MW**
	AND + RDV®	**IR + MW with Doppler filter**
	WALK + RDV®	**MW + MW with Doppler filter**
Coverage	IR	**108°**
	MW	**72° horiz. - 36° vert.**
Signaling	Alarm	✓
	Tamper	✓
	Antimasking	✓
	Failure	✓
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
	Antimasking**	**Programmable**

Active status	Always active or with armed program	**Programmable**
Functions	Self test	**Automatic**
	Temperature compensation	**Automatic**
Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**9V DC...15V DC**
	Consumption TWINTEC BUS	**Stand-by 17mA @ 12V DC**
		Max. 28mA @ 12V DC
	Consumption TWINTEC MASK BUS	**Stand-by 20mA @ 12V DC**
		Max. 30mA @ 12V DC
Connection	RS485	**Sensor Bus**
Physical specifications	Environmental class	**II**
	Protection class	**IP30-IK02**
	Casing	**ABS**
	Dimensions (L x H x D)	**68 x 118 x 51mm**
	Weight	**160g**
	Operating temperature	**-10°C...+55°C**
Conformity	Standard	**EN 50131-2-4**
	Security grade TWINTEC BUS	**2**
	Security grade TWINTEC MASK BUS	**3**
	Notified body	**IMQ**

** Also available with the frequencies 9.9GHz and 9.35GHz (see table of models)*
*** Only available with TWINTEC MASK BUS*

TWINTEC BUS

Sensor BUS RS485 Connection

TWINTEC BUS

AND WALK LOGIC | SELF TEST | TEMPERATURE COMPENSATION | RANGE 18m

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

The detector is compliant with EN 50131-2-4- Security grade 2.

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 MASK BUS

ANTI-MASK | AND WALK LOGIC | SELF TEST | TEMPERATURE COMPENSATION | RANGE 18m

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

The detector is compliant with EN 50131-2-4- Security grade 3.

Item no. F102TWINMB18/V MW frequency 9.35GHz

Item no. F102TWMB18/V-99 MW frequency 9.9GHz

Item no. F102TWMB18/V-93 MW frequency 9.35GHz

EN 50131-1 COMPLIANT

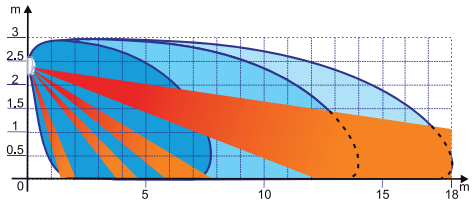
TWINTEC BUS - TWINTEC MASK BUS - Accessories

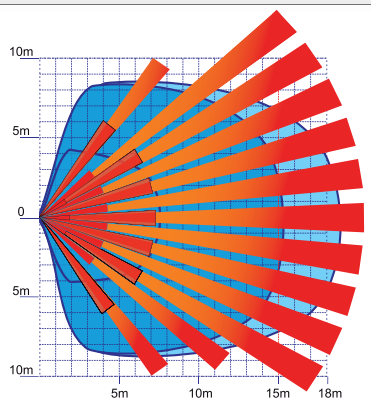
SNODO 2000

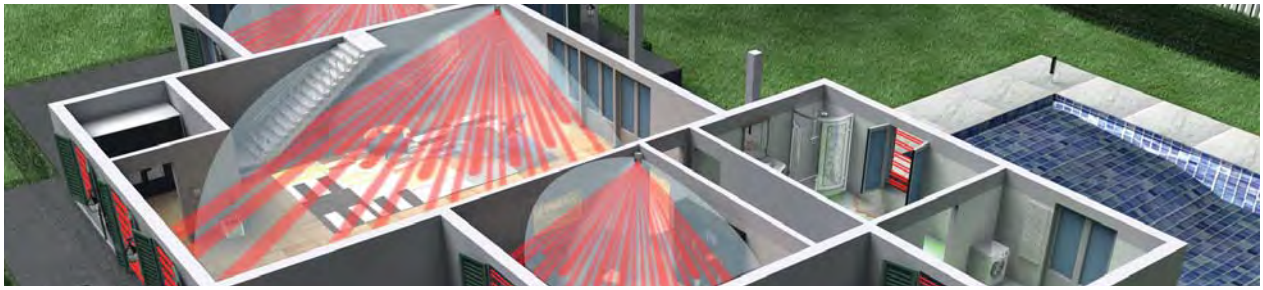
Self-protected swivel mounting bracket for TWINTEC, INFROTEK series detectors, TWINBAND WL and IR500 BWL - 90° hor. and 30° vert. orientation
(sold in packs of 10)

Item no. F102SNODO2000

Coverage diagrams







According to the CEPT T/R 70-03 recommendation, the device can operate in the listed countries

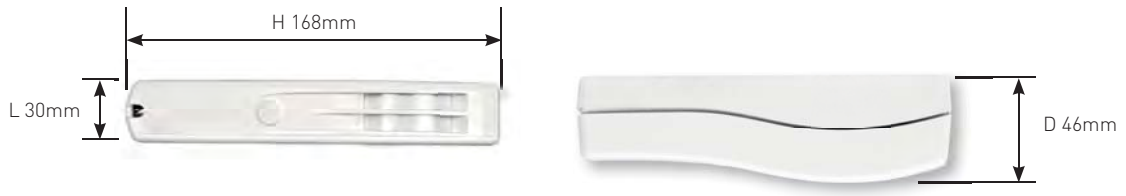
9.35GHz*	A	B	BG	CH	CY	CZ	D	DK		EST			FL	GE	GR	H	HR		IRL	IS	L	LT	LV	M	N	NL	PL	P	RO		SLO	SK
9.9GHz*	A	B	BG	CH	CY	CZ		DK		EST	F	FIN	FL	GE	GR	H	HR	I	IRL	IS	L	LT	LV	M	N	NL	PL	P	RO		SLO	
10.525GHz*		B	BG	CH	CY			DK	E				FL	GE	GR	H	HR	I	IRL	IS	L	LT	LV	M	N	NL	PL	P	RO	S	SLO	

* Center frequency indicated on the data label inside the product

Passive infrared for indoor use

DUALRED BUS

The detector DUALRED BUS offers a reliable protection of doors and windows. It is composed of two physical/logical units, a dual PIR sensor and an internal magnetic contact. Alternatively to the internal contact, an external magnetic contact, a rope contact or an inertial detector can be connected.
The two physical/logical units can be programmed so as to function together, with the AND or the OR detection logic, or independently. In the independent mode, the two units are identified by the system as two independent zones. If the magnetic contact is opened during the arming phase, it is automatically excluded. In this case, if the combined functioning has been set with the AND detection logic, the detector automatically adopts the OR logic.
The detector DUALRED BUS can be used indoors or in sheltered outdoor areas, not directly exposed to the weather conditions. It is equipped with a programmable antimasking function and automatic diagnostic functions, such as self test and temperature compensation. Thanks to RSC® technology, all functioning parameters, such as sensitivity, range and pulse count are programmable locally and from a distance. In addition, it is possible to define the privileged sense of beam crossing.



DUALRED BUS - Technical and functional specifications

Physical/logical unit IR	IR elements	**2**
	Infrared beams	**10**
	Levels (infrared beams)	**2**
	Max. range	**5m**
	Sensitivity	**Programmable (2 settings)**
Physical/logical unit contact	Internal magnetic contact	**Reed ampulla**
	Input	**Magnetic contact - rope contact - inertial detector**
	Self exclusion	**Programmable**
Functioning mode	Combined	**Occupies 1 zone**
	Independent	**Occupies 2 zones**
Detection logic	AND	**IR + contact**
	OR	**IR or contact**
	Sense of beam crossing	**3 settings**
	Pulse count	**1 or 3 pulses**
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
	Antimasking	**Programmable**

Signaling	Alarm	✓
	Tamper	✓
	Antimasking	✓
	Failure	✓
Active status	Always active or with armed program	**Programmable**
Functions	Self test	**Automatic**
	Temperature compensation	**Automatic**
Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10V DC...14.5V DC**
	Consumption in stand-by	**20mA @ 12V DC**
	Max. consumption	**25mA @ 12V DC**
Connection	RS485	**Sensor Bus**
Physical specifications	Environmental class	**II**
	Protection class	**IP34-IK02**
	Casing	**ASA**
	Dimensions (L x H x D)	**168 x 46 x 30mm**
	Weight	**80g**
	Operating temperature	**-20°C...+55°C**

DUALRED BUS

Sensor BUS RS485 Connection

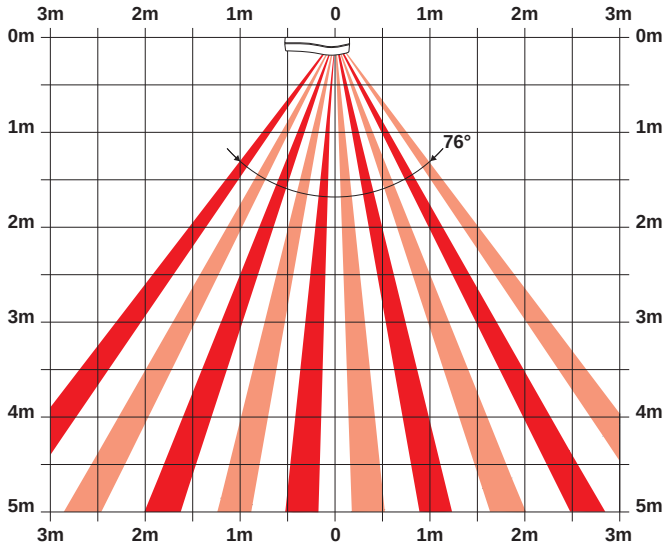
DUALRED BUS	2 LOGICAL UNITS	ANTI-MASK	AND OR LOGIC	SELF TEST	TEMPERATURE COMPENSATION	RANGE 5m	IP34

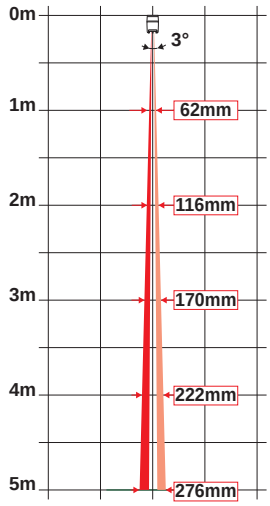
Compatible systems: TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

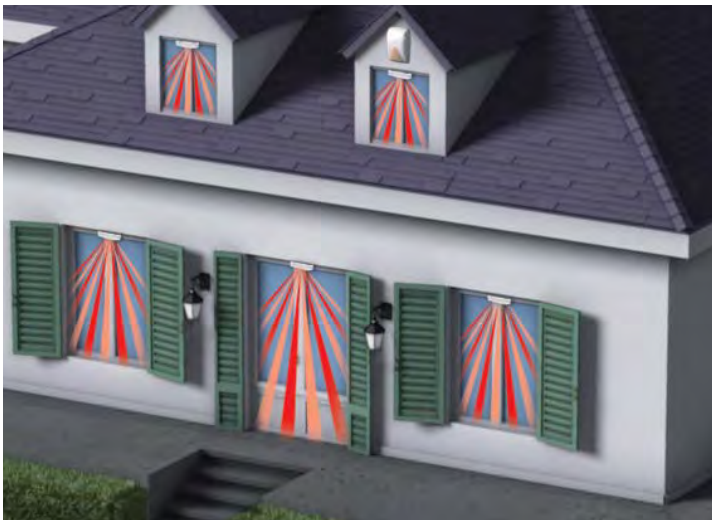
Item no. F102DUALREDBUS White color

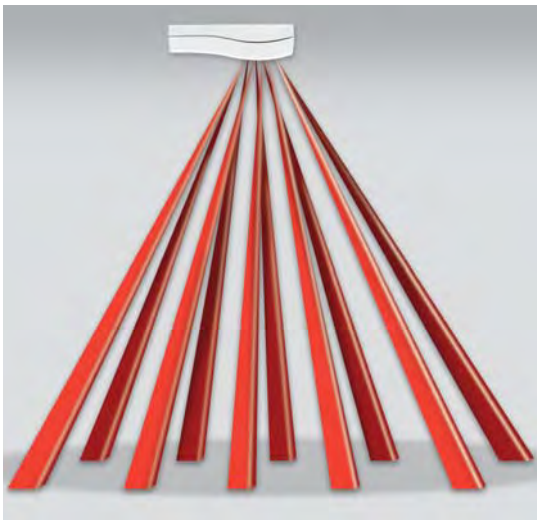
Item no. F102DUALREDBUSM Brown color

Coverage diagrams





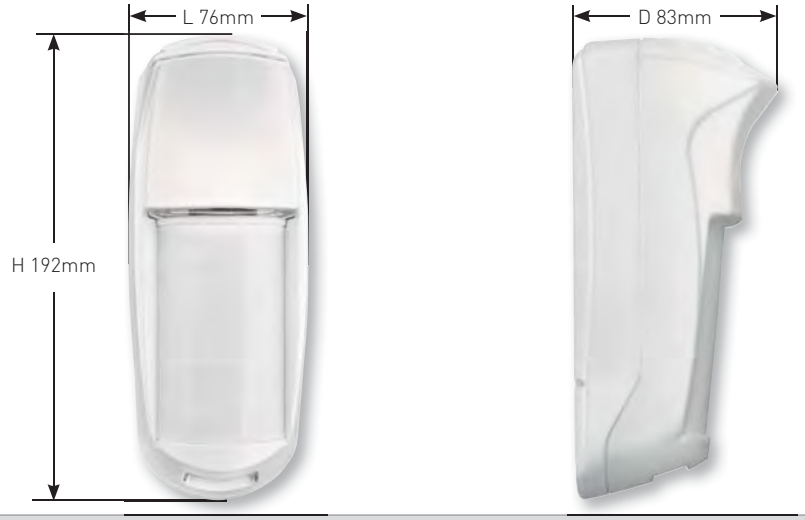




Dual technology for outdoor use

GLOBAL SPACE BUS

The GLOBAL SPACE BUS is a dual technology detector for outdoor mounting with a multi-point technology: triple infrared and microwave. The very tight protection, made of 43 infrared beams distributed on 5 levels, combined with the microwave beam, is capable of satisfying any security requirement.
The programmable AND detection logic permits the adaptation of the detector's functioning to the caracteristics of the area to be protected. The detector is equipped with a programmable antimasking function and automatic diagnostic functions, such as self test and temperature compensation.
Thanks to RSC® technology, all functioning parameters, such as sensitivity, range and pulse count are programmable locally and from a distance.



GLOBAL SPACE BUS - Technical and functional specifications

Detection features	Microwave frequency	**10.525GHz***
	Microwave sensitivity	**Programmable** (6 settings)
	Response time	**Programmable** (4 settings)
	IR elements	**3**
	Infrared beams	**43**
	Levels (infrared beams)	**5**
	Max. range	**15m**
	Infrared sensitivity	**Programmable** (independent for each IR)
	Pulse count	**Programmable** (independent for each IR)
Detection logics	AND adjacent beams	**2 adjacent IR + MW**
	AND single beam	**1 IR + MW**
	AND two beams with priority	**2 IR + MW** with IR1 prior-ranking
	AND two beams	**2 IR + MW**
	AND upper beams	**IR1 + IR2 + MW**
	AND lower beams	**IR2 + IR3 + MW**
	AND + RDV®	**IR + MW + RDV®**
	Microwave	**Excludable**
Coverage	IR	**100°**
	MW	**72° horiz. - 36° vert.**
Signaling	Alarm	✓
	Tamper	✓
	Antimasking	✓
	Failure	✓

Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
	Antimasking	**Programmable**
Active statuts	Always active or with armed program	**Programmable**
Functions	Self test	**Automatic**
	Temperature compensation	**Automatic**
Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10V DC...14.5V DC**
	Consumption in stand-by	**28mA @ 12V DC**
	Max. consumption	**32mA @ 12V DC**
Connection	RS485	**Sensor Bus**
Physical specifications	Environmental class	**III**
	Protection class	**IP55-IK04**
	Casing	**ASA**
	Dimensions (L x H x D)	**76 x 192 x 83mm**
	Weight	**240g**
	Operating temperature	**-25°C...+55°C**

** Also available with the frequencies 9.9GHz and 9.35GHz (see table of models)*

GLOBAL SPACE BUS

Sensor BUS RS485 Connection

GLOBAL SPACE BUS

3 IR + 1 MW | AND LOGIC | RSC® | ANTI - MASK | SELF TEST | RANGE 15m | TEMPERATURE COMPENSATION | IP55

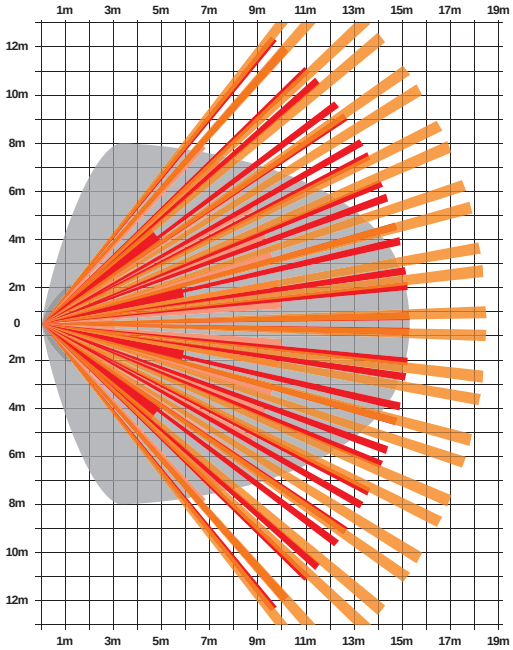
Compatible systems: TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

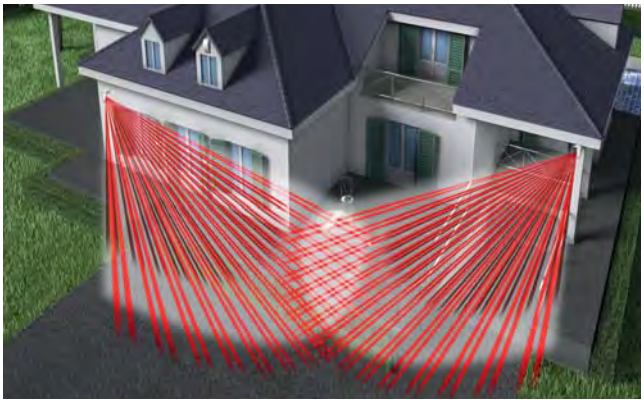
Item no. F102GLOSPACEBUS MW frequency 10.525GHz

Item no. F102GLOSPBUS/99 MW frequency 9.9GHz

Item no. F102GLOSPBUS/93 MW frequency 9.35GHz

Coverage diagrams





GLOBAL SPACE BUS - Accessories

CORNER MOUNTING BRACKET

Corner mounting bracket - 22.5° or 45° angle

Item no. F102STAFFAGLOB

RAIN COVER

Rain cover - Dimensions (L x H x D) 136 x 58 x 162mm

Item no. F102GLOCALOTTA

According to the CEPT T/R 70-03 recommendation, the device can operate in the listed countries

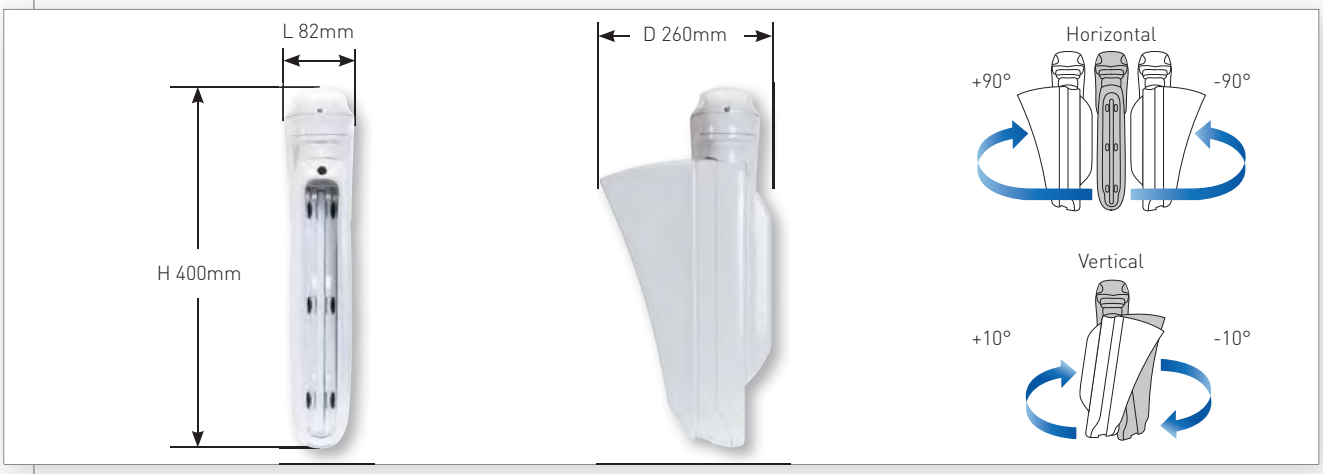
9.35GHz*	A	B	BG	CH	CY	CZ	D	DK		EST			FL	GE	GR	H	HR		IRL	IS	L	LT	LV	M	N	NL	PL	P	RO		SLO	SK
9.9GHz*	A	B	BG	CH	CY	CZ		DK		EST	F	FIN	FL	GE	GR	H	HR	I	IRL	IS	L	LT	LV	M	N	NL	PL	P	RO		SLO	
10.525GHz*		B	BG	CH	CY			DK	E				FL	GE	GR	H	HR	I	IRL	IS	L	LT	LV	M	N	NL	PL	P	RO	S	SLO	

* Center frequency indicated on the data label inside the product

Passive infrared for outdoor use

TRIRED BUS

The TRIRED BUS detector features a unique protection technique with a triple passive infrared sensor. Designed for outdoor use, resistant to extreme weather conditions, it is an ideal solution for the protection of the areas close to homes, such as balconies and terraces, with ranges of up to 30 meters.
The integrated swivel mounting bracket offers ample opportunities for orientation.
The range, adjustable for each beam, 8 AND detection logics and 3 independent alarm counters (1 for each beam) are only some of the many programmable parameters.
The detector features a programmable antimasking function, which adapts the detection logic to AND of 2 beams in case of a masking attempt.



TRIRED BUS - Technical and functional specifications

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

Functions	Self test	**Automatic (independent for each beam)**
	Temperature compensation	**Automatic**
	Coverage test	**Manual with LED and buzzer**
Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10V DC...14.5V DC**
	Consumption in stand-by	**13mA @ 12V DC**
	Max. consumption	**20mA @ 12V DC**
Connection	RS485	**Sensor Bus**
Physical specifications	Environmental class	**II**
	Protection class	**IP55-IK04**
	Casing	**ASA**
	Dimensions (L x H x D)	**82 x 400 x 260mm**
	Weight	**1.2kg**
	Operating temperature	**-20°C...+65°C**

Sensor BUS RS485 Connection

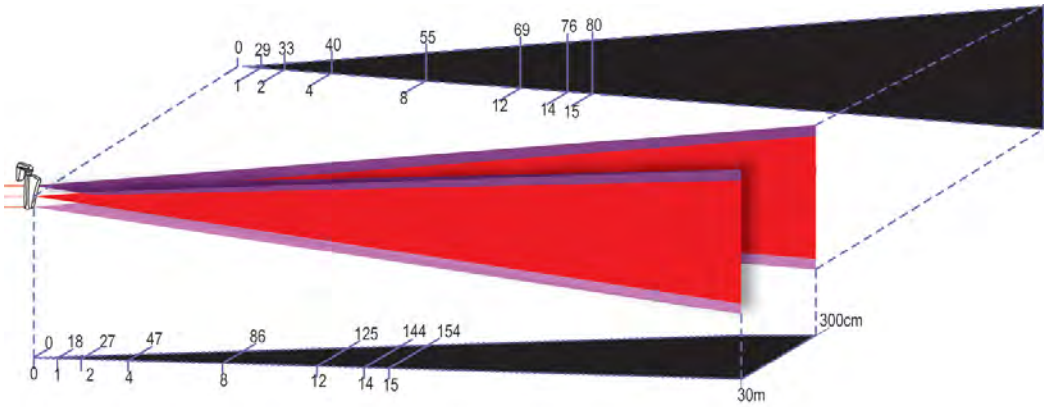
TRIRED BUS

ANTI-MASK | AND LOGIC | SELF TEST | TEMPERATURE COMPENSATION | RANGE 30m | IP55

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

Item no. F102TRIREDBUS

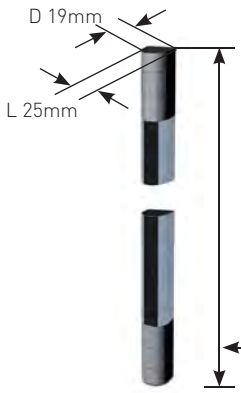
Coverage diagrams



Active infrared for outdoor use

WINBEAM/S - DOORBEAM/S

The barriers WINBEAM/S and DOORBEAM/S represent a smart solution for the protection of the access ways of apartments, homes and buildings in general, both indoors and in protected outdoor areas.
They offer considerable resistance to mechanical stress and weather conditions and are distinguished by superior characteristics, operational flexibility and ease of installation. The sophisticated digital synchronism immunizes the barriers from parasite reflections and other disturbing factors.
The wide range, composed by several colors and heights, also customizable, is characterized by a functional and elegant design that allows seamless integration in every architectural framework.



Dimensions		
L	**H**	**D**
25	600	19
25	800	19
25	1050	19
25	1300	19
25	1550	19
25	1800	19
25	2050	19

WINBEAM/S - DOORBEAM/S - Technical and functional specifications

Detection features	Range	**Max. 16m**			
	Beam power (range)	**Programmable (3 settings)**			
	Cable exit	**Programmable (2 settings)**			
	Beams	**Enabling/disabling of each beam**			
	Response time	**Programmable (2 settings)**			
	Detection logic	**Programmable (4 settings)**			
Connection	RS485	**Zone Bus**			
	Connection cable	**6m prewired**			
	Conductors	**3 (2 power supply, 1 signal)**			
	Synchronization	**Digital automatic**			
Electrical specifications	Rated voltage	**12V DC**			
	Operating voltage	**9.5V...14.5V DC**			
Physical specifications	Environmental class	**III (EN 50130-5)**			
	Protection class	**IP52**			
	Casing	**Anodized aluminum**			
	Operating temperature	**-5°C...+55°C**			
Consumption	**Model**	**TX min.**	**TX max.**	**RX stand-by**	**RX alarm**
	WINBEAM/S 60	7.2mA	16.5mA	10mA	18mA
	WINBEAM/S 80	7.5mA	19mA	11mA	19mA
	WINBEAM/S 105	7.6mA	21.5mA	12mA	20mA
	WINBEAM/S 130	7.7mA	24mA	13mA	21mA
	DOORBEAM/S 155	7.8mA	26.5mA	14mA	22mA
	DOORBEAM/S 180	8.0mA	29mA	15mA	23mA
	DOORBEAM/S 205	8.2mA	31.5mA	16mA	24mA

WINBEAM/S - DOORBEAM/S

Zone BUS Connection

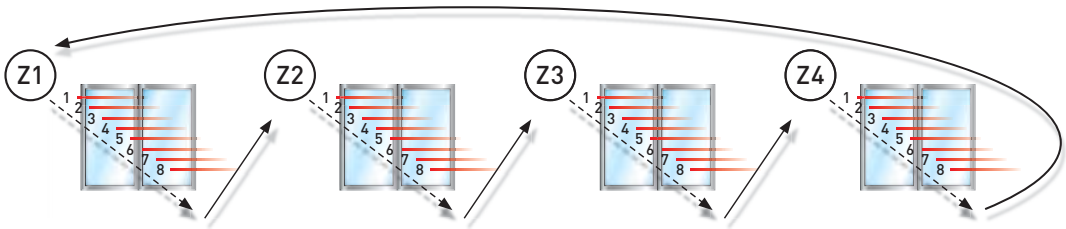
WINBEAM/S - DOORBEAM/S

TX + RX | SYNC MODE | ALUMINUM BOX | RANGE 16m | IP52

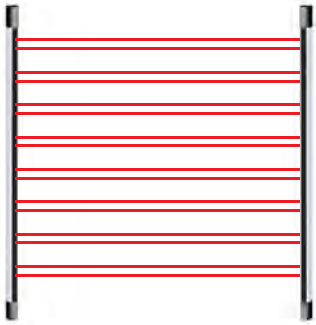
Compatible systems: TP4-20 - TP4-20 GSM - TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

Models	Item no. brown	Item no. white	Item no. gray met.	Height	Beams
WINBEAM/S 60	F102WINBS60	F102WINBS60BI	F102WINBS60GR	60cm	2
WINBEAM/S 60T	F102WBS60T	F102WBS60BIT	F102WBS60GRT	61...79mm	2
WINBEAM/S 80	F102WINBS80	F102WINBS80BI	F102WINBS80GR	80cm	3
WINBEAM/S 80T	F102WBS80T	F102WBS80BIT	F102WBS80GRT	81...104mm	3
WINBEAM/S 105	F102WINBS105	F102WINBS105BI	F102WINBS105GR	105cm	4
WINBEAM/S 105T	F102WBS105T	F102WBS105BIT	F102WBS105GRT	106...129mm	4
WINBEAM/S 130	F102WINBS130	F102WINBS130BI	F102WINBS130GR	130cm	5
WINBEAM/S 130T	F102WBS130T	F102WBS130BIT	F102WBS130GRT	131...154mm	5
DOORBEAM/S 155	F102DOORBS155	F102DOORBS155BI	F102DOORBS155GR	155cm	6
DOORBEAM/S 155T	F102DBS155T	F102DBS155BIT	F102DBS155GRT	156...179mm	6
DOORBEAM/S 180	F102DOORBS180	F102DOORBS180BI	F102DOORBS180GR	180cm	7
DOORBEAM/S 180T	F102DBS180T	F102DBS180BIT	F102DBS180GRT	181...204mm	7
DOORBEAM/S 205	F102DOORBS200	F102DOORBS200BI	F102DOORBS200GR	205cm	8
DOORBEAM/S 205T	F102DBS200T	F102DBS200BIT	F102DBS200GRT	206...300mm	8

Synchronization



Configuration

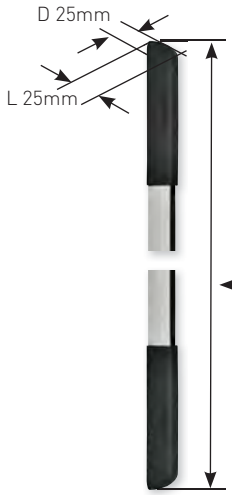


Barrier configuration

Active infrared for outdoor use

WINBEAM N - DOORBEAM N

The barriers WINBEAM N and DOORBEAM N are the evolution of the models WINBEAM/S and DOORBEAM/S, from which they adopt the advanced technical features. They can be used indoors and in protected outdoor areas and the new modular design, with the body being hooked into universal and interchangeable brackets, makes installation and maintenance extremely easy. The precise setting of beam power, able to reduce the range to 2 meters, permits the adaptation of the barriers' functioning in case of strong reflections caused by shiny surfaces. The barriers are equipped with a locally excludible anti-tamper protection against opening and detachment.



Dimensions		
L	**H**	**D**
25	1050	25
25	2050	25

WINBEAM N - DOORBEAM N - Technical and functional specifications

Detection features	Range	**Max. 16m**			
	Beam power (range)	**Programmable (3 settings)**			
	Cable exit	**Programmable (2 settings)**			
	Beams	**Enabling/disabling of each beam**			
	Response time	**Programmable (2 settings)**			
	Detection logic	**Programmable (4 settings)**			
Connection	RS485	**Zone Bus**			
	Connection cable	**6m prewired**			
	Conductors	**3 (2 power supply, 1 signal)**			
	Synchronization	**Digital automatic**			
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**			
Electrical specifications	Rated voltage.	**12V DC**			
	Operating voltage	**9,5V...14,5V DC**			
Physical specifications	Environmental class	**II (EN 50130-5)**			
	Protection class	**IP53**			
	Casing	**Anodized aluminum**			
	Operating temperature	**-5°C...+55°C**			
Consumption	**Model**	**TX min.**	**TX max.**	**RX stand-by**	**RX alarm**
	WINBEAM N 105	7.6mA	21.5mA	12mA	20mA
	DOORBEAM N 205	8.2mA	31.5mA	16mA	24mA

WINBEAM N - DOORBEAM N

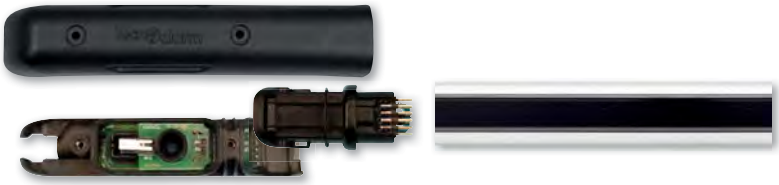
Zone BUS Connection

WINBEAM N - DOORBEAM N

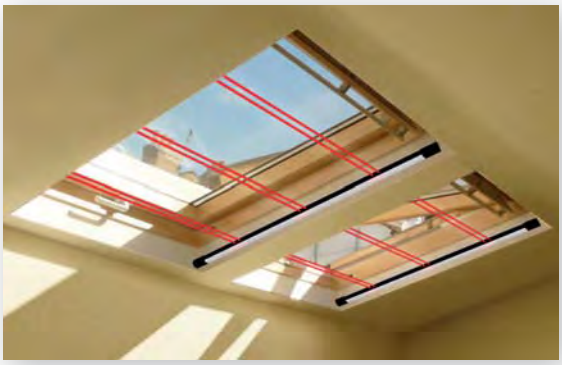
TX + RX | SYNC MODE | ALUMINUM BOX | RANGE 16m | IP53

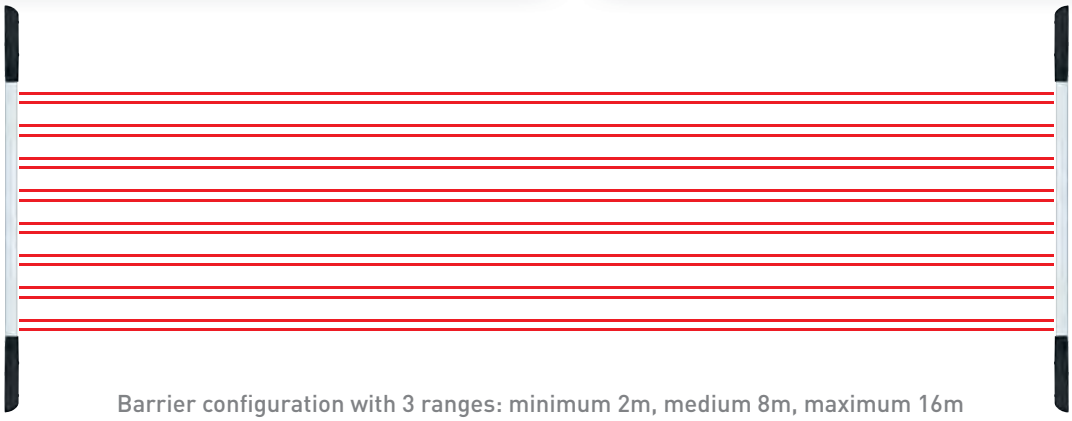
Compatible systems: TP4-20 - TP4-20 GSM - TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

MODELS	ITEM NO. BROWN	ITEM NO. WHITE	ITEM NO. GRAY MET.	HEIGHT	BEAMS
WINBEAM N 105	F102WINBN105	F102WINBN105BI	F102WINBN105GR	105mm	4
DOORBEAM N 205	F102DOORBN205	F102DOORBN205BI	F102DOORBN205GR	205mm	8



Completely modular design



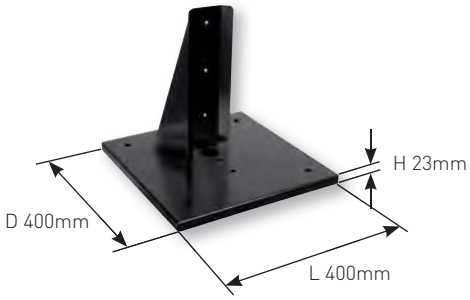


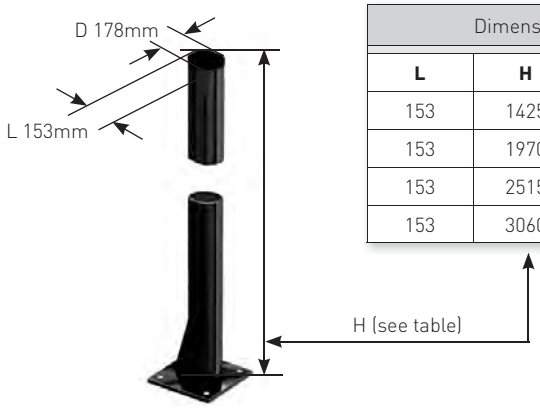
Barrier configuration with 3 ranges: minimum 2m, medium 8m, maximum 16m

Active infrared for outdoor use

BEAMTOWER

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





Dimensions		
L	**H**	**D**
153	1425	178
153	1970	178
153	2515	178
153	3060	178

BEAMTOWER - Technical and functional specifications

Detection features	Range	**Max. 150m**
	Beam power	**Programmable (5 settings)**
	Beams BEAMTOWER/4	**4**
	Beams BEAMTOWER/6	**6**
	Beams BEAMTOWER/8	**8**
	Beams BEAMTOWER/8 3M	**8**
	Detection logic	**Programmable (16 settings)**
	Horizontal orientation	**180* (+/- 90*)**
	Vertical orientation	**20* (+/- 10*)**
Functions	Disqualification	**Programmable**
Configurations	Barrier	**1 mode**
	Closed perimeter	**3 modes**
	Open perimeter	**6 modes**
Connection	RS485	**Sensor Bus**
	Synchronization	**Digital automatic**
Anti-tamper protection	Anti-opening	**Micro-switch**
	Anti-climb-over	**Micro-switch**
	Antimasking	**Programmable**

Electrical specifications	Rated voltage	**13V DC**	
	Operating voltage	**10.5V...14.5V DC**	
	AC Powersupply (optional)	**230/28V AC**	
	Battery	**12V/7Ah**	
Physical specifications	Environmental class	**IV**	
	Protection class	**IP45 (retrofittable)**	
	Casing	**Al + PC**	
	Operating temperature	**-25°C...+55°C**	
	Wall mounting	✓	
	Floor mounting	**Optional fastening base**	
Consumption	**Model**	**TX**	**RX**
	BEAMTOWER/4	**197mA**	**165mA**
	BEAMTOWER/6	**243mA**	**180mA**
	BEAMTOWER/8	**288mA**	**196mA**
	BEAMTOWER/8 3M	**288mA**	**196mA**
	Heater modules	**770mA @ 28V AC**	

BEAMTOWER

Sensor BUS RS485 Connection

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

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

BEAMTOWER - Accessories

HEATER KIT

Thermostat and heater module for BEAMTOWER

Item no. F102BERISC

TA16/2 TRANSFORMER KIT

220/28V AC 60VA transformer kit for BEAMTOWER

Item no. C126TRASTA16/2

TA/BT TRANSFORMER KIT

220/28V AC 150VA transformer kit for BEAMTOWER (to be used for extreme climates)

Item no. C126TRASTA/BT

FASTENING BASE

Fastening base for floor mounting of BEAMTOWER - steel with cataphoresis treatment

Item no. F102BESTAFFA

ALIGNMENT KIT

Suitcase with optical viewfinder and shutters for DUALBEAM WL, QUADBEAM and BEAMTOWER

Item no. F102KITMIRINO

SHUTTERS

Shutters for DUALBEAM WL, QUADBEAM and BEAMTOWER (sold in packs of 10)

Item no. F102KITATTENUA

FIBER OPTIC CONVERTER

Converter for the 2km extension of the serial bus with fiber optic cables

Item no. F130CONVFIBRA

MONITOR 868

Wireless receiver for alignment of DUALBEAM WL, QUADBEAM, BEAMTOWER and EXPLORER BUS

Item no. F102MONITOR868

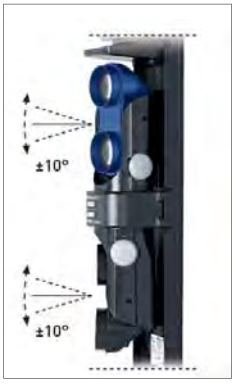
RSC® Technology

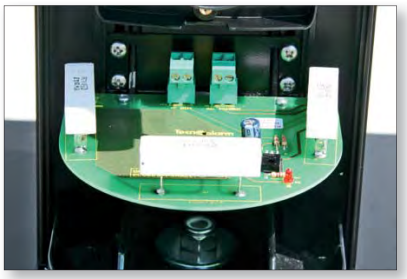
MODBEAM modules

The MODBEAM lens modules are divided into transmitter and receiver modules. The transmitter module emits 2 beams, each of them composed of two parallel rays. The interruption of one beam is only validated if both rays it is composed of are cut: a technique which increases significantly the immunity against false alarms.
The beams can be programmed independently, each with a different interruption time, one of the parameters, along with the number and the position of the interrupted beams, which compose the detection logic.

Orientation

The lenses of the MODBEAM modules can be turned individually on the horizontal and vertical axis.
The alignment of the beams is made with the help of two precision control knobs permitting a millimetric adjustment.
The +/-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 which compensate the temperature inside the column in case it is particularly low (anti-freeze protection).
The thermostatic control of the heaters is guaranteed by the controller.

Anti-climb-over protection

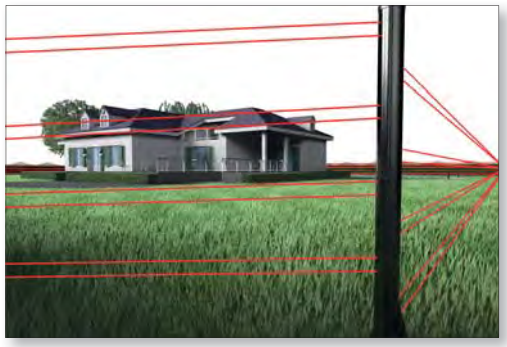
The tilting top cap of the column contains the electronic board with the anti-opening and anti-climb-over switches.
A climb-over attempt is detected as soon as the top cap springs back under the weight of an intruder.

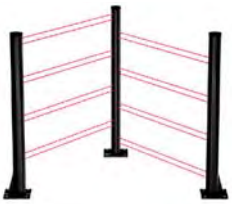
Controller

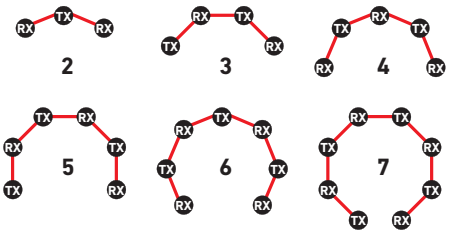
The controller is the centerpiece of the column and all its electronic components are connected to it.
The controller of the receiver column is connected to the control panel or the input module and, for synchronization, to the corresponding controller of the transmitter column.
The connections between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

Configurations

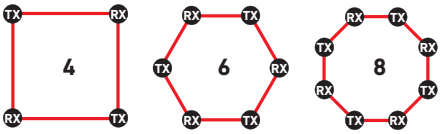
Barrier configuration



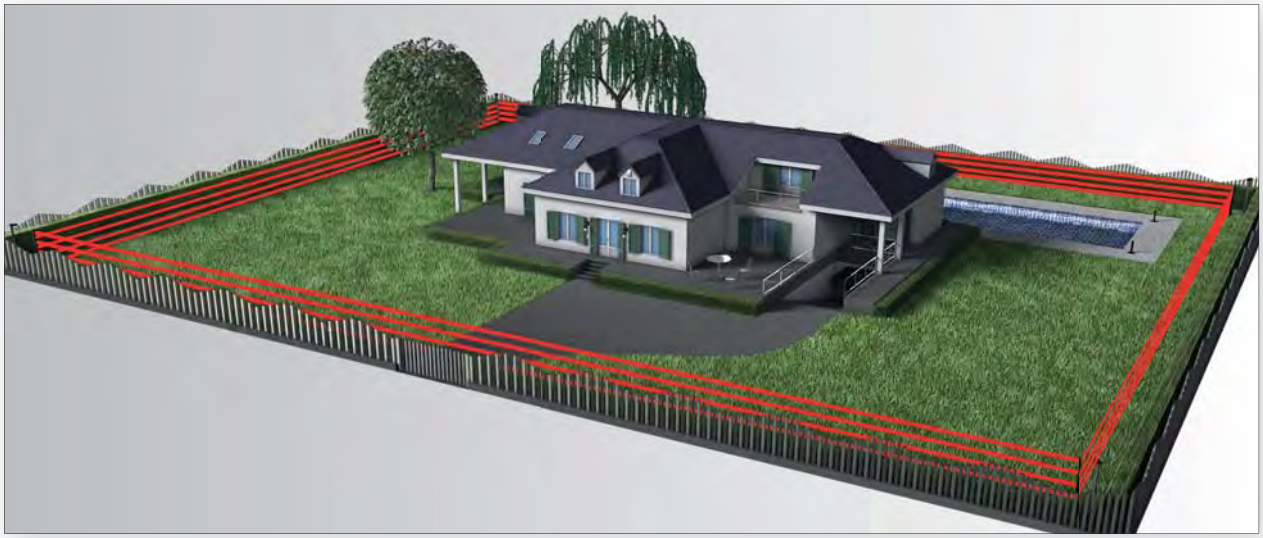




Open perimeter configuration



Closed perimeter configuration



Microwave for outdoor use

EXPLORER BUS

The EXPLORER BUS is a microwave barrier profiting from the long-term experience and know-how of Tecnoalarm in the design of perimeter protection for sites with high-risk, such as great industrial plants, solar parks, warehouses and airports. The barrier projects a beam of electromagnetic waves along the track to protect, which constitutes a sensitive barrier to intrusion attempts.
The barrier is highly resistant against weathering, light sources and RFI/EMI interferences.
Three models with different ranges and the programmable transmission channel allow to build configurations with practically every track length, including the combination of several barriers per track without causing inferences.

EXPLORER BUS - Technical and functional specifications

Detection features	Range EXPLORER BUS 600	**Max. 60m**
	Range EXPLORER BUS 1200	**Max. 120m**
	Range EXPLORER BUS 2200	**Max. 220m**
	Operating frequency	**10.525GHz (50% impulse)**
	Transmission channel	**Programmable(5KHz - 6KHz - 7KHz - 8KHz)**
	Transmission power	**≤500mW**
	Response time	**Programmable (4 settings)**
	Sensitivity	**Programmable (5 settings)**
Functions	Failure signaling	**Excludible**
	Supervision	**Excludible**
Anti-tamper protection	Anti-opening	**Micro-switch**
	Anti-twist	**Mechanical**
	Antimasking	**Programmable**
Connection	RS485	**Sensor Bus**

Electrical specifications AC power supply	Rated voltage	**18V AC**
	Max. consumption TX	**260mA @ 18V AC**
	Max. consumption RX	**100mA @ 18V AC**
Electrical specifications DC power supply	Rated voltage	**13.8V DC**
	Operating voltage	**9V...15V DC**
	Max. consumption TX	**115mA @ 13.8V DC**
	Max. consumption RX	**45mA @ 13.8V DC**
	Battery	**12V/2.1Ah**
	Current available for battery recharge	**240mA**
Physical specifications	Environmental class	**IV**
	Protection class	**IP65**
	Casing	**Al + ABS**
	Dimensions (L x H x D)	**310 x 310 x 239.5mm**
	Weight (w/o battery)	**5.2kg**
	Operating temperature	**-25°C...+55°C**
	Wall mounting	**Optional wall mounting bracket**
	Floor mounting	**Optional mounting post**

EXPLORER BUS

Sensor BUS RS485 Connection

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

EXPLORER BUS 600 Item no. F102EXPBUS600	TX + RX	4 CHANNELS	RANGE 60m	IP65
EXPLORER BUS 1200 Item no. F102EXPBUS1200	TX + RX	4 CHANNELS	RANGE 120m	IP65
EXPLORER BUS 2200 Item no. F102EXPBUS2200	TX + RX	4 CHANNELS	RANGE 220m	IP65

EXPLORER BUS - Accessories

POST

Mounting post for EXPLORER II and EXPLORER BUS - Zinc-coated - Dimensions (Ø x H) 60 x 1500mm

Item no. F102PALI

TA1/N3 TRANSFORMER KIT

220/18V AC 60VA transformer kit for QUADBEAM, EXPLORER II and EXPLORER BUS

Item no. F102TRASF.BARR.

MOUNTING BRACKET

Wall mounting bracket for EXPLORER II and EXPLORER BUS - Zinc-coated - Length 22cm or 42cm

Item no. F102STAFFAEXPL

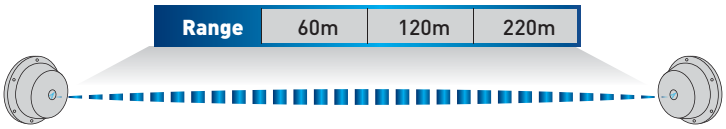
Item no. F102STAFFAEX42

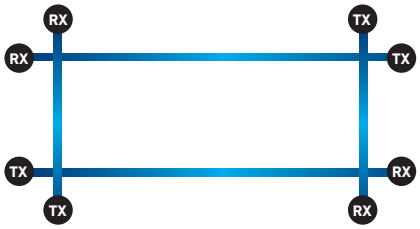
MONITOR 868

Wireless receiver for alignment of DUALBEAM WL, QUADBEAM, BEAMTOWER and EXPLORER BUS

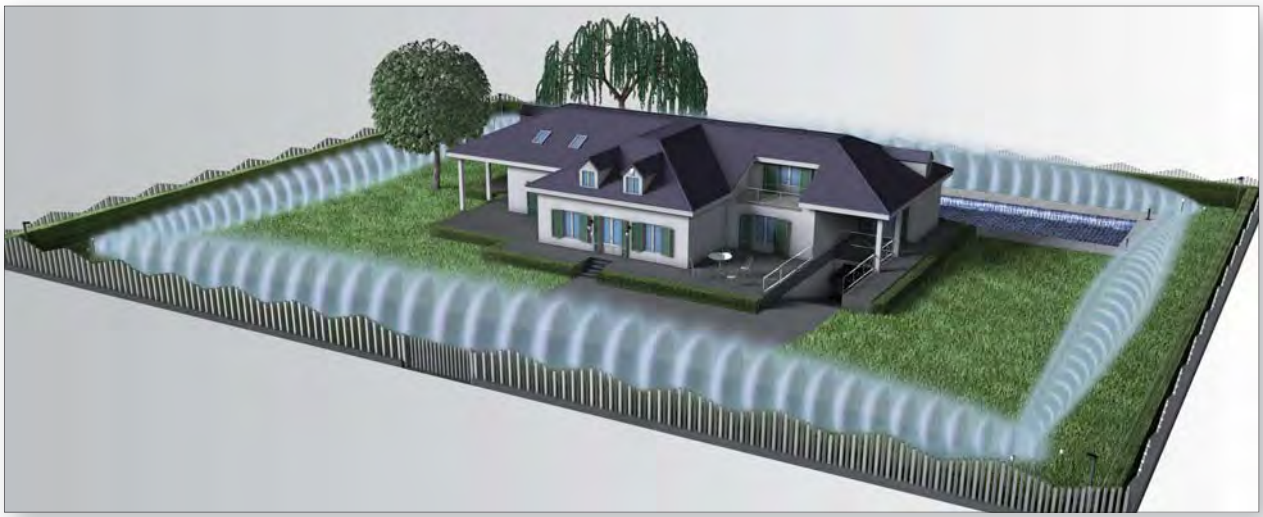
Item no. F102MONITOR868

Configurations





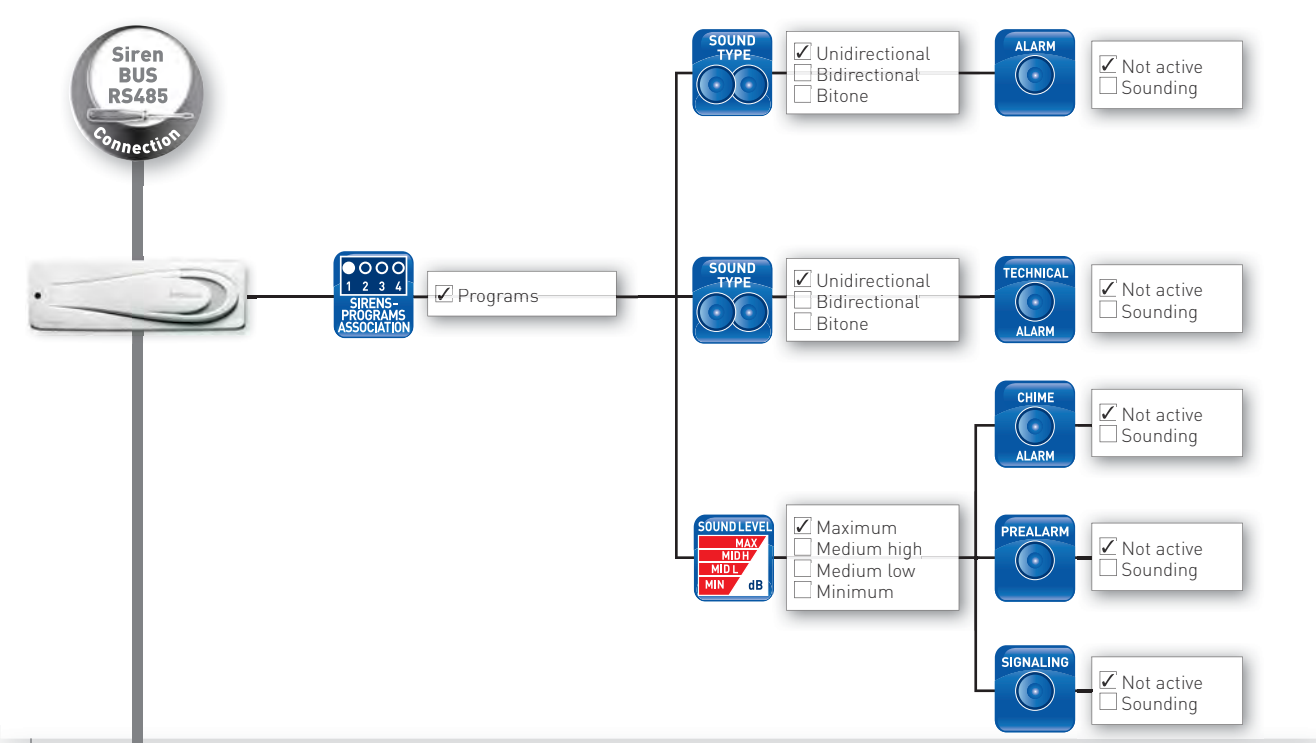
Protection of a 4-sides perimeter

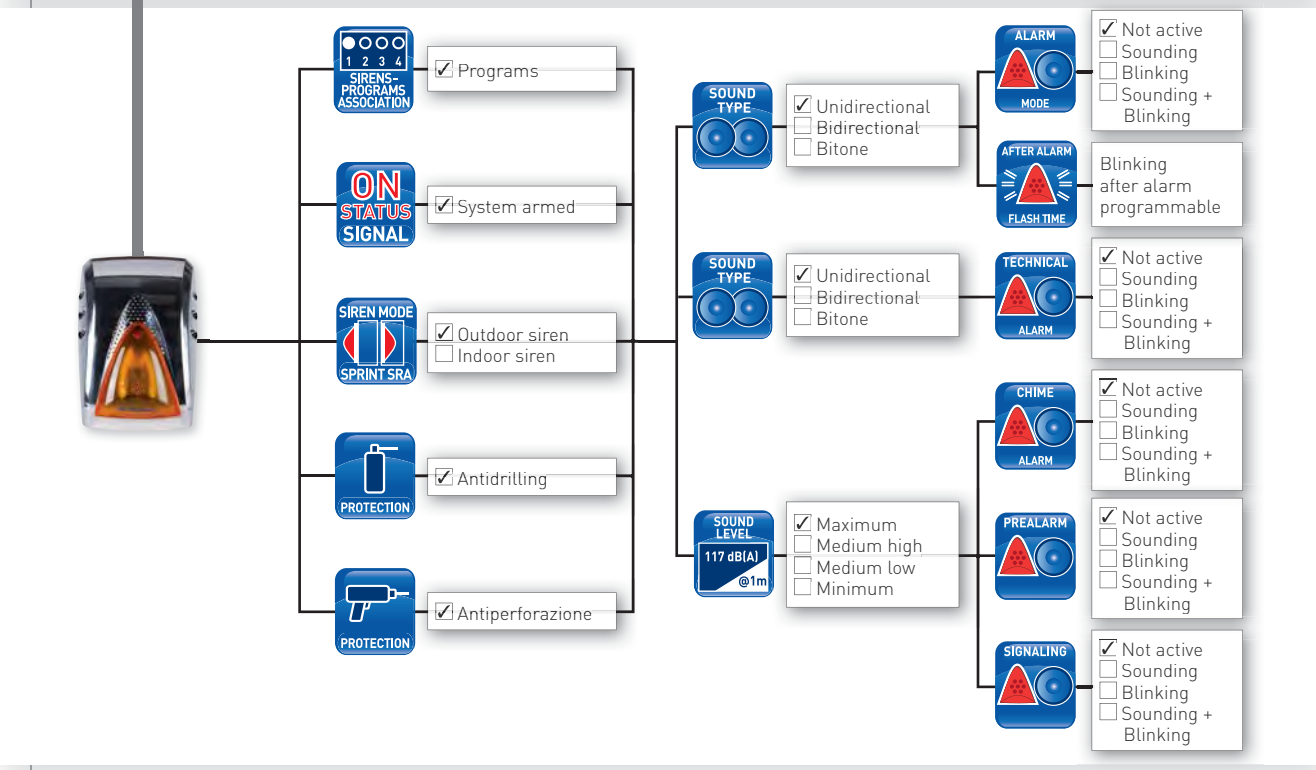


RSC® Technology

Sirens

The RSC® technology allows to verify many of the sirens' functions with only 4 connecting wires.
The signaling of the sirens can be diversified for each of the associated programs.
The anti-tamper protections, able to defeat any attempt at sabotage, and the sophisticated self test functions ensure the highest level of security and reliability.





SIRTEC BUS

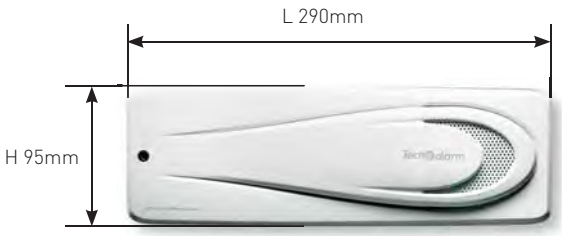
Siren BUS RS485 Connection

Self-powered sirens for indoor use

SIRTEC BUS

The SIRTEC BUS is a self-powered magneto-dynamic siren for indoor mounting. Functioning is completely programmable and can be diversified for each of the associated programs. The signals for alarm, prealarm, technical alarm, chime and system status are programmable as well as the acoustic arming/disarming signal for the associated programs.
Sound level 117dB(A) @ 1m - 12V/2.1Ah battery - Connection via RS485 serial bus - Antistatic ABS casing - Design by Pininfarina - Dimensions (L x H x D) 290 x 95 x 70mm -
Certified to EN 50131-4 - Security grade 3

EN 50131-1 COMPLIANT



SIRTEC BUS - Technical and functional specifications

Acoustic features	Sound level	**117dB(A) @ 1m**
	Frequency	**2400Hz...3500Hz**
	Volume for prealarm/ system status signaling	**Programmable (4 settings)**
	Sound type	**Programmable (3 settings)**
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
Functions	Functioning mode	**Programmable (indoor or outdoor)**
	Program association	**Programmable (w/o restriction)**
	Arming/disarming signal	**Acoustic**
	Alarm	**Programmable**
	Technical alarm	**Programmable**
	Prealarm	**Programmable**
	System status signaling	**Programmable**
	Chime	**Programmable**
Self test	Power supply	**Automatic**
	Battery	**Automatic**
	Horn	**Automatic**

Connection	RS485	**Siren Bus**
Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10.5V...14.5V DC**
	Stand-by consumption	**8mA @12V DC**
	Alarm consumption	**45mA @ 12V DC**
	Battery	**12V/2.1Ah**
	Battery recharge	**Step-up**
Physical specifications	Environmental class	**II**
	Protection class	**IP31-IK06**
	Casing	**ABS**
	Dimensions (L x H x D)	**290 x 95 x 70mm**
	Weight (w/o battery)	**780gr**
	Operating temperature	**-10°C...+55°C**
Conformity	Standard	**EN 50131-4**
	Security grade	**3**

Siren BUS RS485 Connection

SIRTEC BUS

SELF TEST | SOUND LEVEL 117 dB(A) @1m | SOUND TYPE | STEP-UP BATTERY CHARGE | SELF POWERED | ABS BOX

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

Item no. F105SIRTECBUS White color

Item no. F105SIRTECBUSGR Gray metallic color

RSC® Technology

Self-powered sirens for outdoor use

SAEL 2010 BUS - SAEL 2010PRO BUS

With the new range of RSC® outdoor sirens, Tecnoalarm redefines the concepts of security, reliability, performance and energy consumption of the sirens. The RSC® technology bus allows to exercise on the sirens a continuous functional control and ensure the full efficiency of the devices.
The sirens SAEL 2010 BUS and SAEL 2010PRO BUS are equipped with a complete range of anti-tamper protections capable of defeating any sabotage attempt. Sophisticated self test functions anticipate operating failures. The high-luminosity LED flashlight allows to create new signaling functions with dynamic lighting effects.

EN 50131-1 COMPLIANT

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

Acoustic features	Sound level	**103dB(A) @ 1m**
		100dB(A) @ 3m
	Frequency	**1400Hz...3600Hz**
	Volume for prealarm/ system status signaling	**Programmable (4 settings)**
	Sound type	**Programmable (3 settings)**
Flashlight specifications	Type	**LED**
	Color	**Orange**
	Flash rate	**45/min.**
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
	Antifoam	✓
	Antidrilling*	✓
Functions	Functioning mode	**Programmable (indoor or outdoor)**
	Program association	**Programmable (w/o restriction)**
	Arming/disarming signal	**Programmable**
	System status signaling	**Programmable**
	Alarm	**Programmable (3 settings)**
	Technical alarm	**Programmable (3 settings)**
	Prealarm	**Programmable (3 settings)**
	System status signaling	**Programmable (3 settings)**
	Chime	**Programmable (3 settings)**
	After flashing	**Programmable**

Self test	Power supply	**Automatic**
	Battery	**Automatic**
	Horn	**Automatic**
	Flashlight	**Automatic**
Connection	RS485	**Siren Bus**
Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10.5V...14.5V DC**
	Stand-by consumption	**12mA @12V DC**
	Alarm consumption	**1.8mA @ 12V DC**
	Flashlight consumption	**70mA @ 12V DC**
	Battery	**12V/2.1Ah**
	Battery charge controller	✓
Physical specifications	Environmental class	**IIIA**
	Protection class	**IP43-IK08**
	Casing	**ASA/Al**
	Dimensions (L x H x D)	**211 x 315 x 98mm**
	Weight (w/o battery) SAEL 2010 BUS	**ASA 2kg - Al 2.7kg**
	Weight (w/o battery) SAEL 2010PRO BUS	**Al 3.1kg**
	Operating temperature	**-40°C...+50°C**
Conformity	Standard	**EN 50131-4**
	Security grade SAEL 2010 BUS	**3**
	Security grade SAEL 2010PRO BUS	**4**
	Notified body	**IMQ**

** Only available with SAEL 2010PRO BUS*

SAEL 2010 BUS

Siren BUS RS485 Connection

SAEL 2010 BUS

EN 50131-1 COMPLIANT | SELF POWERED | PROTECTION | SELF TEST | LED | ASA BOX | IP44

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

Self-powered magneto-dynamic siren for outdoor mounting - Optical antifoam protection - LED flashlight - Sound level 103dB(A) @ 1m - 12V/2.1Ah battery - Connection via RS485 serial bus - Casing: ABS base, ASA cover - Design by Pininfarina - Dimensions (L x H x D) 211 x 315 x 98mm- Certified to EN 50131-4 - Security grade 3 - Environmental class IIIA

Item no. F105S2010BUSBI White ASA cover

Item no. F105S2010BUSGR Gray metallic ASA cover

SAEL 2010 BUS

EN 50131-1 COMPLIANT | SELF POWERED | PROTECTION | SELF TEST | LED | ALUMINUM BOX | IP44

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

The same as SAEL 2010 BUS but with varnished or chrome-plated aluminum cover

Item no. F105S2010BUSAL Varnished aluminum cover

Item no. F105S2010BUSCR Chrome-plated aluminum cover

SAEL 2010PRO BUS

EN 50131-1 COMPLIANT | SELF POWERED | PROTECTION | PROTECTION | SELF TEST | LED | ALUMINUM BOX | IP44

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

Self-powered magneto-dynamic siren for outdoor mounting - Optical antifoam protection - Anti-drilling protection - LED flashlight - Sound level 103dB(A) @ 1m - 12V/2.1Ah battery - Connection via RS485 serial bus - Casing: ABS base, aluminum cover - Design by Pininfarina - Dimensions (L x H x D) 211 x 315 x 98mm - Certified to EN 50131-4 - Security grade 4 - Environmental class IIIA

Item no. F105S2010PBUSAL Varnished aluminum cover

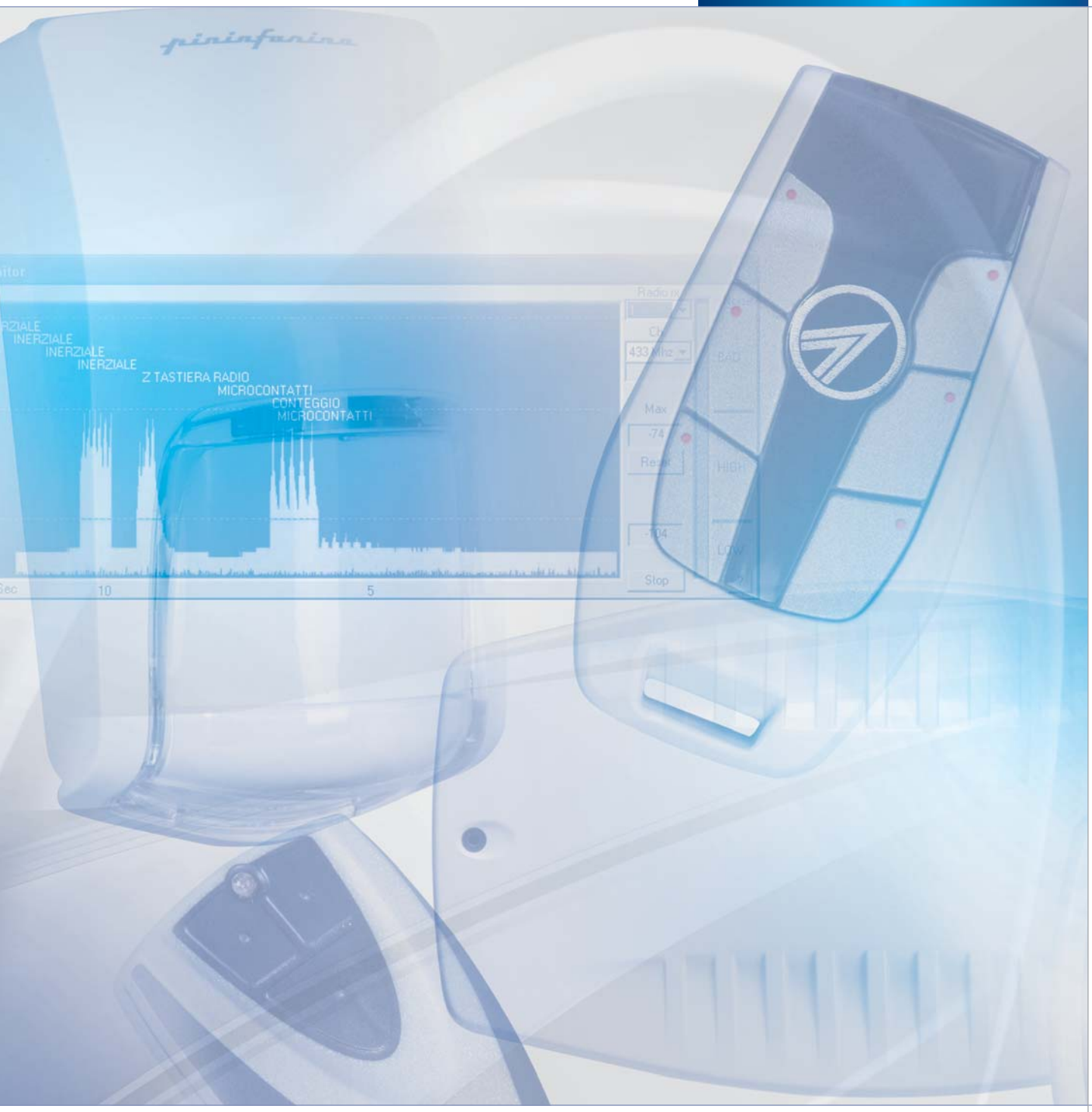
Item no. F105S2010PBUSCR Chrome-plated aluminum cover

WIRELESS

The wireless devices of Tecnoalarm can be completely integrated into their burglar alarm systems permitting the creation of efficient solutions which combine simplicity of installation and high standards of protection.
The integration is made through either receiver or receiver-transmitter modules that are connected to the system via serial bus. The range of Tecnoalarm wireless devices comprises detectors as well as alarm and control devices, divided into two families using different proprietary protocols, ASYNC@WL and SYNC@BWL.

ASYNC@WL protocol
The ASYNC@WL protocol allows to manage wireless devices in the uni or bidirectional mode, with dual-band frequency, 433MHz and 868MHz. Thanks to a sophisticated encryption algorithm, it is capable of ensuring a good reliability of communication and high immunity to disturbances. The efficient energy management of the wireless system guarantees maximum operational autonomy.

SYNC@BWL protocol
The SYNC@BWL protocol is compatible with the devices of the series "500 BWL". Its outstanding features distinguish it from any other available protocol: dual-band frequency (433MHz and 868MHz), divided into up to 16 channels each, automatic tuning, 5 digital modulation modes, automatically adjustable transmission power, dual encryption algorithm (AES 128bit and XTEA 128bit).
These features allow to reach incomparable levels of immunity to disturbances, even if fraudulent, and extremely low consumptions, guaranteeing great autonomy of service.


pininfarina
INERZIALE
INERZIALE
INERZIALE
INERZIALE
Z TASTIERA RADIO
MICROCONTATTI
CONTEGGIO
MICROCONTATTI
Max
-74
Reset
Stop
10
5

Wireless

ASYNC@WL protocol

The implementation of the wireless devices using the ASYNC@WL protocol is made through either the receiver RX300/433868 or the receiver-transmitter RTX200/433868, connected to the system via serial bus.
The ASYNC@WL devices offer an adequate level of protection and permit the control and supervision by the Tecnoalarm alarm system so as to be suitable for the use in medium-high security applications.

ASYNC@WL COMPATIBLE SYSTEMS - MANAGED WIRELESS DEVICES

SYSTEM	RECEIVER RECEIVER-TRANSMITTER	RECEIVER ASYNC@WL DEVICES		RECEIVER-TRANSMITTER ASYNC@WL DEVICES	
TP4-20 TP4-20 GSM	RX300/433868 (MAX. 2)	ZONES	20		
		WL KEYS	16		
TP8-28 TP8-28 GSM	RX300/433868 RTX200/433868 (MAX. 2)	ZONES	28	SIRENS/CONSOLES	2/2
		WL KEYS	80	ZONES	28
				WL KEYS	80
TP10-42	RX300/433868 RTX200/433868 (MAX. 2)	ZONES	42	SIRENS/CONSOLES	2/2
		WL KEYS	80	ZONES	42
				WL KEYS	80
TP8-88	RX300/433868 RTX200/433868 (MAX. 2)	ZONES	88	SIRENS/CONSOLES	4/4
		WL KEYS	180	ZONES	88
				WL KEYS	180
TP20-440	RX300/433868 RTX200/433868 (MAX. 3)	ZONES	160	SIRENS/CONSOLES	6/6
		WL KEYS	250	ZONES	160
				WL KEYS	250

Receiver-transmitters

Serial BUS RS485 Connection

RTX200/433868

ASYNC @WL | TX BDI RX | ABS BOX

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

Bidirectional receiver-transmitter module - Dual-band frequency 433MHz/868MHz - ASYNC@WL protocol - Manages uni and bidirectional communication with wireless devices of Tecnoalarm (number depending on the system) - Connection via RS485 serial bus - ABS casing - Design by Pininfarina - Dimensions (L x H x D) 270 x 156 x 68mm - White color

Item no. F102RTX200

Receivers

RX300/433868

ASYNC @WL | ABS BOX

Compatible systems: TP4-20 - TP4-20 GSM - TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

Receiver module - Dual-band frequency 433MHz/868MHz - ASYNC@WL protocol - Manages unidirectional communication with wireless devices of Tecnoalarm (number depending on the system) - Connection via RS485 serial bus - ABS casing - Design by Pininfarina - Dimensions (L x H x D) 270 x 156 x 68mm - White color

Item no. F102RX300

Control units

LCD300 WL

ASYNC @WL | TX BDI RX | LITHIUM BATTERY | 1 INPUT | 8 PROGRAMS MANAGED

Bidirectional console - Dual-band frequency 433MHz/868MHz - ASYNC@WL protocol - Manages max. 8 programs - 2x16 digits backlit LCD - NC input - Lithium battery (included) - Surface mounting - ABS casing - Design by Pininfarina - Dimensions (L x H x D) 120 x 175 x 46mm - White color
N.B. Compatible with receiver-transmitter RTX200/433868 only

Item no. F102LCD300WL

TX240

ASYNC @WL | 433 OR 868 MHz | LITHIUM BATTERY | PROGRAMS MANAGED | REMOTE CONTROL MANAGEMENT

Hand-held transmitter with 3 programmable function keys - Available with either 433MHz or 868MHz frequency band - ASYNC@WL protocol - Lithium battery (included) - ABS casing - Dimensions (L x H x D) 65 x 40 x 15.5mm

TX240-3/433	**Item no. F102TX240-3/433** 433MHz frequency band
TX240-3/868	**Item no. F102TX240-3/868** 868MHz frequency band

TX140 SOS

ASYNC @WL | 433 MHz | LITHIUM BATTERY | SOS

Emergency call button for home medical emergencies - 433MHz frequency band - Actuation either through push-button, embedded in the front side of the casing, or pull-switch, connected to the cord - ASYNC@WL protocol - Lithium battery (included) - ABS casing - Dimensions (L x H x D) 45 x 75 x 20

Item no. F102TX140

Wireless

Magnetic contacts

TX310

Magnetic contact for indoor use - Dual-band frequency 433MHz/868MHz - ASYNC@WL protocol - Dual ID - 2 inputs for external devices: reed contacts, rope contacts or seismic detectors - Lithium battery (included) - Surface mounting - Antistatic ABS casing - Design by Pininfarina - Dimensions (L x H x D) 114.5 x 38.5 x 30mm

TX310	**Item no. F102TX310** White color
TX310/M	**Item no. F102TX310/M** Brown color

TX310 - Accessories

BATTERY TESTER

Wireless battery tester for TX310 and TX500 BWL

Item no. F102BATTERYTEST

Smoke detectors

SMOKY

Optical smoke detector for indoor use - Dual-band frequency 433MHz/868MHz - ASYNC@WL protocol - Programmable sensitivity (3 settings) - Lithium battery (included) - Surface mounting - Antistatic ASA casing - IP22 - Dimensions (Ø x H) 100 x 55mm - White color

Item no. F102SMOKY

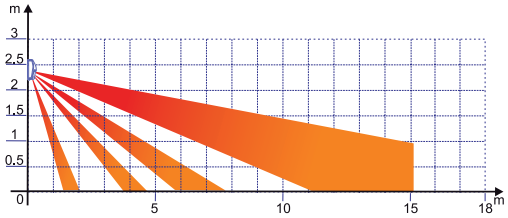
Passive infrared for indoor use

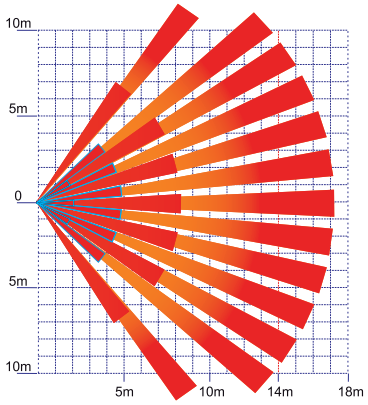
TWINBAND WL

Passive infrared detector for indoor use - Dual-band frequency 433MHz/868MHz - ASYNC@WL protocol - Available with 4 different lens patterns: wide angle, long range, curtain and wide angle pet and ranges from 14m to 22m - Lithium battery (included) - ABS casing - Design by Pininfarina - Dimensions (L x H x D) 68 x 118 x 51mm - White color

TWINBAND WL/V	**Item no. F102TWINBAND/V** Wide angle - 14m
TWINBAND WL/C	**Item no. F102TWINBAND/C** Long range - 22m
TWINBAND WL/T	**Item no. F102TWINBAND/T** Curtain - 22m
TWINBAND WL/PET	**Item no. F102TWINBAND/PE** Pet - 17m

Coverage diagrams





TWINBAND WL - Accessories

SNODO 2000

Self-protected swivel mounting bracket for TWINTEC, INFROTEK series detectors, TWINBAND WL and IR500 BWL - 90° hor. and 30° vert. orientation
(sold in packs of 10)

Item no. F102SNODO2000

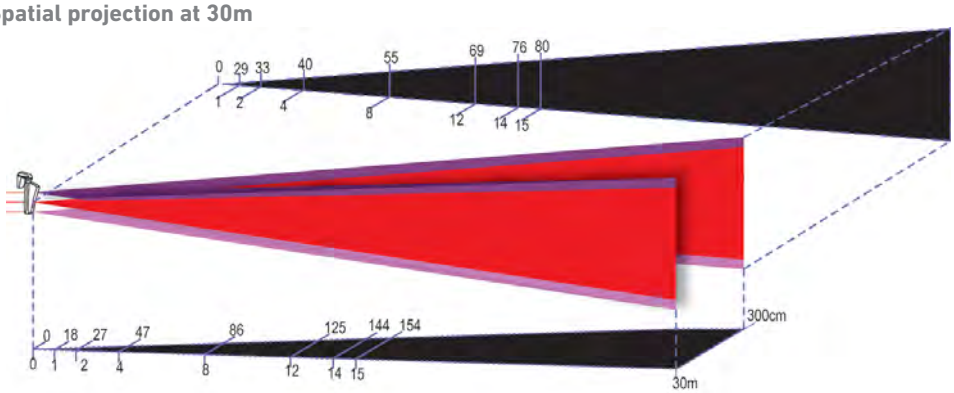
Passive infrared for outdoor use

TRIRED WL	
	Triple passive infrared detector for the protection of the outdoors close to the building - Dual-band frequency 433MHz/868MHz - ASYNC@WL protocol - 3 dual infrared elements with curtain lenses provide a perfect protection of doors, windows and terraces - Programmable AND detection logic (3 settings) - Integrated swivel mounting bracket with ample opportunities for orientation - Anti-masking protection - Available with either 15m or 30m maximum range - Lithium battery (included) - ASA casing - IP55 - Dimensions (L x H x D) 82 x 400 x 260mm - White color
	TRIRED WL — **Item no. F102TRIREDWL** 30m range
	TRIRED WL/15 — **Item no. F102TRIREDWL15** 15m range

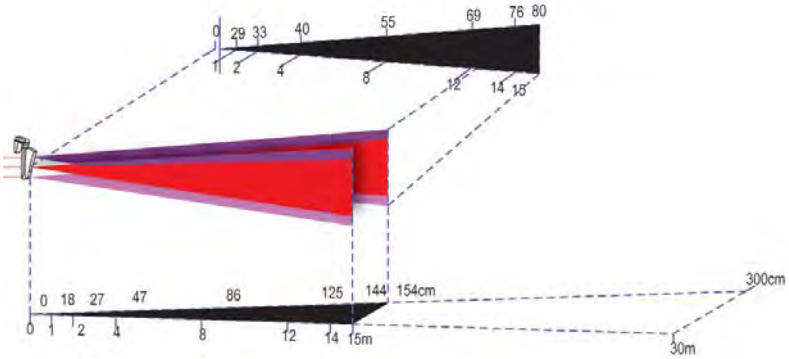
ASYNC @WL · LITHIUM BATTERY · ANTI-MASK · AND LOGIC · TEMPERATURE COMPENSATION · RANGE 15m OR 30m · IP55

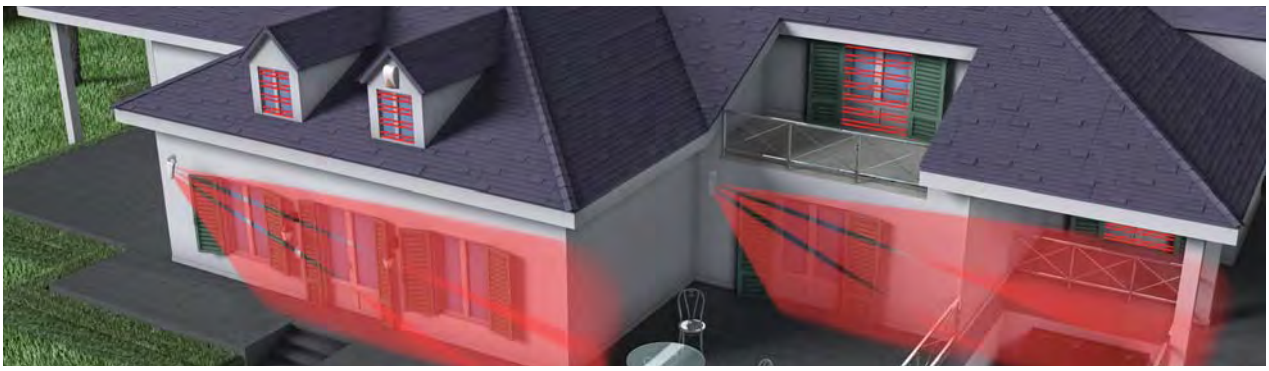
WIRELESS

TRIRED WL - Spatial projection at 30m



TRIRED WL/15 - Spatial projection at 15m





Active infrared for outdoor use

DUALBEAM WL

Active infrared barrier - Dual-band frequency 433MHz/868MHz - ASYNC@WL protocol - 2 infrared beams - 80m max. range - Lithium batteries (included) - PC Makrolon casing - IP45 - Dimensions (L x H x D) 102 x 436 x 106mm - Black color

Item no. F102DUALBEAMWL

DUALBEAM WL HE

The same as DUALBEAM WL but with heater module and rechargeable Ni-Cd batteries

N.B. Power must be provided by an external power supply. The barrier requires 18V AC 18W or 24V DC 600mA power supply for each device (TX and RX).

Item no. F102DUALBEAMWLH

DUALBEAM WL - DUALBEAM WL HE - Accessories

POST

Galvanized mounting post for DUALBEAM WL and QUADBEAM - Dimensions (Ø x H) 50 x 1500mm

Item no. F102PALOBEAM

MOUNTING KIT

Post mounting kit for DUALBEAM WL and QUADBEAM (kit for one transmitter and receiver pair)

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

Outdoor sirens

SAEL 2000 WL

Bidirectional self-powered siren for outdoor use - Dual-band frequency 433MHz/868MHz - ASYNC@WL protocol - Xenon flash light - Sound level 103dB(A) @ 1m - Lithium battery (included) - Casing: ABS base, ASA cover - Design by Pininfarina - Dimensions (L x H x D) 211 x 315 x 98mm - White color

N.B. Compatible with receiver-transmitter RTX200/433868 only

Item no. F105SAEL2000WL

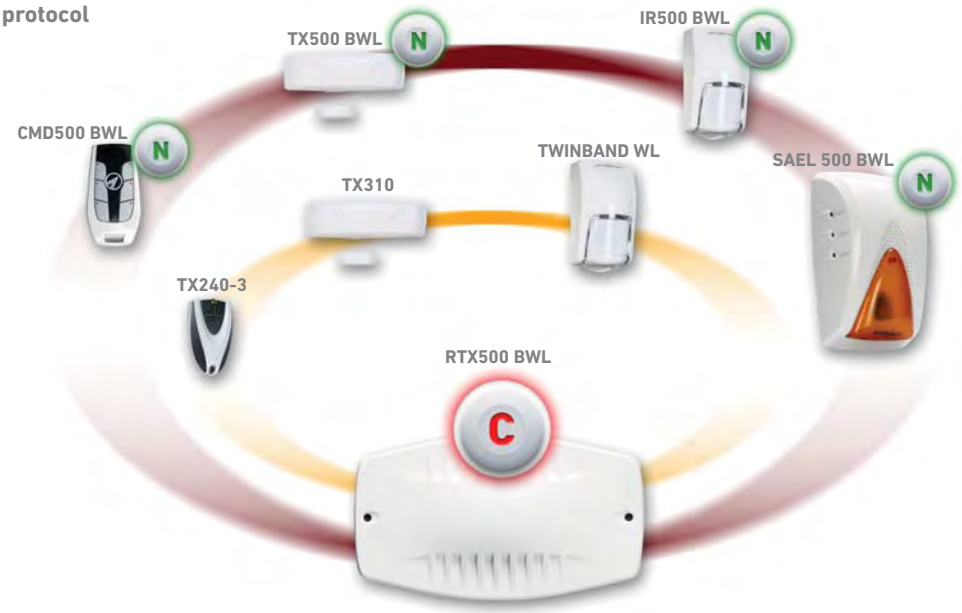
SYNC@BWL protocol

The implementation of the wireless devices using the SYNC@BWL protocol is made through the coordinator RTX500 BWL, connected to the system via serial bus.
The coordinator has the task to coordinate and synchronize the bidirectional data communication with the SYNC@BWL devices and to receive the signals from the ASYNC@BWL devices.
The intrinsic security of the SYNC@BWL devices, permitting a great number of settings, the automatic tuning of the channel frequency on the 433MHz and 868MHz frequency bands as well as the control and supervision by the Tecnoalarm alarm system, makes them suitable for the use in high security applications.

SYNC@BWL COMPATIBLE SYSTEMS - MANAGED WIRELESS DEVICES

SYSTEM	COORDINATOR	ASYNC@WL DEVICES		SYNC@BWL DEVICES						
TP8-28 TP8-28 GSM	RTX500 BWL (MAX. 1)	SIRENS/CONSOLES	2	SIRENS	0	1	2			
		ZONES	28	ZONES / WL KEYS	108	108	108			
		WL KEYS	80							
TP10-42	RTX500 BWL (MAX. 1)	SIRENS/CONSOLES	2	SIRENS	0	1	2			
		ZONES	42	ZONES / WL KEYS	133	126	119			
		WL KEYS	80							
TP8-88	RTX500 BWL (MAX. 1)	SIRENS/CONSOLES	4	SIRENS	0	1	2	3	4	
		ZONES	88	ZONES / WL KEYS	133	126	119	112	105	
		WL KEYS	180							
TP20-440	RTX500 BWL (MAX. 1)	SIRENS/CONSOLES	6	SIRENS	0	1	2	3	4	5	6
		ZONES	160	ZONES / WL KEYS	133	126	119	112	105	98	91
		WL KEYS	250								

SYNC@BWL protocol



Coordinators

Serial BUS RS485 Connection

RTX500 BWL

SYNC@BWL | ASYNC@WL | COORDINATOR | ABS BOX

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

Bidirectional coordinator - Dual-band frequency 433MHz/868MHz - ASYNC@WL and SYNC@BWL protocol - Manages uni and bidirectional communication with wireless devices of Tecnoalarm (number depending on the system) - Programmable RF modulation and emission power - Automatic tuning of the channel frequency (16 channels) - Connection via RS485 serial bus - ABS casing - Design by Pininfarina - Dimensions (L x H x D) 270 x 156 x 68mm - White color

Item no. F102RTX500BWL

RTX500 BWL - Technical and functional specifications

General features	Model	**RTX500 BWL**
	Address programming	**Dip-switch**
	Connection	**RS485**
	Baud rate	**38,400bps**
RF specifications	Protocol	**ASYNC@WL + SYNC@BWL**
	Encryption	✓
	Frequency band	**433MHz/868MHz (divided into 16 channels - automatic tuning)**
	RF modulation and emission power	**Programmable**
	Sensitivity	**High**

Hardware	USB port	**USB type B**
	Signaling LED	**12**
	Buzzer	✓
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
Electrical specifications	Rated voltage	**13V DC**
	Operating voltage	**10V...15V DC**
	Consumption	**130mA @ 13V**
Physical specifications	Environmental class	**II**
	Casing	**ABS**
	Dimensions (L x H x D)	**270 x 156 x 68mm**
	Weight	**480g**

Serial BUS RS485 Connection

RTX500S BWL

SYNC@BWL | COORDINATOR | ABS BOX

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

Bidirectional coordinator - Dual-band frequency 433MHz/868MHz - SYNC@BWL protocol - Manages bidirectional communication with wireless devices of Tecnoalarm (number depending on the system) - Automatic tuning of the channel frequency (4 channels) - Connection via RS485 serial bus - ABS casing - Dimensions (L x H x D) 102 x 63 x 25.5mm - White color

Item no. F102RTX500SBWL

RTX500S BWL - Technical and functional specifications

General features	Model	**RTX500S BWL**
	Address programming	**Dip-switch**
	Connection	**RS485**
	Baud rate	**38,400bps**
RF specifications	Protocol	**SYNC@BWL**
	Encryption	✓
	Frequency band	**433MHz/868MHz (divided into 4 channels - automatic tuning)**
	Sensitivity	**High**

Hardware	Signaling LED	**7**
	Buzzer	✓
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
Electrical specifications	Rated voltage	**13V DC**
	Operating voltage	**10V...15V DC**
	Consumption	**50mA @ 13V**
Physical specifications	Environmental class	**II**
	Casing	**ABS**
	Dimensions (L x H x D)	**102 x 63 x 25,5mm**
	Weight	**76g**

Control units

CMD500 BWL	
	Wireless key - Dual-band frequency 433MHz/868MHz - SYNC@BWL protocol - 6 function keys with multiple criteria: single key, combination of keys, analysis of keystroke time - Programmable functions and attributes - Lithium battery (included) - ABS casing - Dimensions (L x H x D) 42 x 80 x 15mm **Item no. F102CMD500BWL**

CMD500 BWL - Technical and functional specifications

General features	Model	**CMD500 BWL**
	Function keys	**6 (dual function)**
	Signaling LED	**6**
	Buzzer	✓
RF specifications	Protocol	**SYNC@BWL**
	Encryption	✓
	Frequency band	**433MHz/868MHz (divided into 16 channels - automatic tuning)**
	RF modulation and emission power	**Programmable**
	Sensitivity	**High**
Functions	Program management	**Programmable**
	Remote control management	**Programmable**
	Arming attributes	**Programmable**

Self test and failure signals	Low battery	✓
	Failure	✓
Electrical specifications	Operating voltage	**2.4V...3V DC**
	Stand-by consumption	**<700nA @ 3V DC**
	Consumption during transmission	**36mA @ 3V DC**
	Battery	**3V/0.62Ah Li**
	Battery autonomy	**>4 years**
Physical specifications	Casing	**ABS**
	Dimensions (L x H x D)	**42 x 80 x 15mm**
	Weight	**35g**

Magnetic contacts

TX500 BWL

SYNC @BWL | N DETECTOR NODE | LITHIUM BATTERY | 2 ID

Magnetic contact for indoor use - Dual-band frequency 433MHz/868MHz - SYNC@BWL protocol - Dual ID - 2 inputs for external devices: reed contacts, rope contacts or seismic detectors - Lithium battery (included) - Surface mounting - Antistatic ABS casing - Design by Pininfarina - Dimensions (L x H x D) 114.5 x 38.5 x 30mm

TX500 BWL	**Item no. F102TX500BWL** White color
TX500 BWL/M	**Item no. F102TX500BWL/M** Brown color

TX500 BWL - Technical and functional specifications

General features	Model	**TX500 BWL**
	ID used	**2 (dual ID)**
	Internal contact	**Hall effect**
	Inputs	**2 (Z1 + Z2)**
	Devices managed	**Reed contacts, rope contacts or seismic detectors**
RF specifications	Protocol	**SYNC@BWL**
	Encryption	✓
	Frequency band	**433MHz/868MHz (divided into 16 channels - automatic tuning)**
	RF modulation and emission power	**Programmable**
	Sensitivity	**High**
Signaling	Alarm ID 1	**Internal contact/Z1 input**
	Alarm ID 2	**Z2 input**
	Tamper	✓
	Low battery	✓

Anti-tamper protection	Anti-opening	**Micro-switch**
Electrical specifications	Operating voltage	**2.4V...3.7V DC**
	Stand-by consumption	**9µA @ 3.6V DC**
	Consumption during transmission	**30mA @ 3.6V DC**
	Battery	**3V/2.6Ah Li (or higher)**
	Battery autonomy	**>4 years**
Physical specifications	Environmental class	**II**
	Casing	**ABS**
	Dimensions (L x H x D)	**114.5 x 38.5 x 30mm**
	Weight	**65g**

TX500 BWL - Accessories

BATTERY TESTER

Wireless battery tester for TX310 and TX500 BWL

Item no. F102BATTERYTEST

Passive infrared for indoor use

IR500 BWL

SYNC @BWL | DETECTOR NODE | LITHIUM BATTERY | WIDE ANGLE RANGE 14m | LONG RANGE RANGE 22m | CURTAIN RANGE 22m | PET RANGE 17m

Passive infrared detector for indoor use - Dual-band frequency 433MHz/868MHz - SYNC@BWL protocol - Available with 4 different lens patterns: wide angle, long range, curtain and wide angle pet and ranges from 14m to 22m - Lithium battery (included) - ABS casing - Design by Pininfarina - Dimensions (L x H x D) 68 x 118 x 51mm - White color

IR500 BWL/V	**Item no. F102IR500BWL/V** Wide angle - 14m
IR500 BWL/C	**Item no. F102IR500BWL/C** Long range - 22m
IR500 BWL/T	**Item no. F102IR500BWL/T** Curtain - 22m
IR500 BWL/PET	**Item no. F102IR500BWL/PE** Pet - 17m

IR500 BWL - Technical and functional specifications

Detection features IR500 BWL/V	IR elements	**1 dual element**
	Infrared beams	**22**
	Levels (infrared beams)	**4**
	Coverage	**100°**
	Pulse count	**Programmable (4 settings)**
RF specifications	Protocol	**SYNC@BWL**
	Encryption	✓
	Frequency band	**433MHz/868MHz (divided into 16 channels - automatic tuning)**
	RF modulation and emission power	**Programmable**
	Sensitivity	**High**
Functions	Self test	**Automatic**
	Temperature compensation	**Automatic**

Signaling	Alarm	✓
	Tamper	✓
	Low battery	✓
	Failure	✓
Anti-tamper protection	Anti-opening	**Micro-switch**
Electrical specifications	Operating voltage	**2.4V...3.7V DC**
	Stand-by consumption	**11µA @ 3.6V DC**
	Consumption during transmission	**30mA @ 3.6V DC**
	Battery	**3V/2.6Ah Li (or higher)**
	Battery autonomy	**>4 years**
Physical specifications	Environmental class	**II**
	Casing	**ABS**
	Dimensions (L x H x D)	**68 x 118 x 51mm**
	Weight	**110g**

IR500 BWL - Accessories

SNODO 2000

Self-protected swivel mounting bracket for TWINTEC, INFROTEK series detectors, TWINBAND WL and IR500 BWL - 90° hor. and 30° vert. orientation (sold in packs of 10)

Item no. F102SNODO2000

Outdoor sirens

SAEL 500 BWL

SYNC @BWL | SIREN NODE | LITHIUM BATTERY | SELF TEST | LED | ASA BOX | IP43

Bidirectional siren for outdoor use - Dual-band frequency 433MHz/868MHz - SYNC@BWL protocol LED flashlight - Sound level 103dB(A) @ 1m - Lithium battery (included) - Casing: ABS base, ASA cover - Design by Pininfarina - Dimensions (L x H x D) 211 x 315 x 98mm - White color

Item no. F102SAEL500BWL

SAEL 500 BWL - Technical and functional specifications

Acoustic features	Sound level	**103dB(A) @ 1m**
		100dB(A) @ 3m
	Frequency	**1400...3600Hz**
	Volume for prealarm/ system status signaling	**Programmable (4 settings)**
Flashlight specifications	Type	**LED**
	Color	**Orange**
	Flash rate	**50/min.**
RF specifications	Protocol	**SYNC@BWL**
	Encryption	✓
	Frequency band	**433MHz/868MHz (divided into 16 channels - automatic tuning)**
	RF modulation and emission power	**Programmable**
	Sensitivity	**High**
Signaling	Tamper	✓
	Low battery	✓
	Failure	✓
Functions	Functioning mode	**Programmable (indoor or outdoor)**
	Alarm	**Programmable (3 settings)**
	Technical alarm	**Programmable (3 settings)**
	Prealarm	**Programmable (3 settings)**
	System status signaling	**Programmable (3 settings)**
	Flashing time	**Programmable**

Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
Self test	Battery	**Automatic**
	Horn	**Automatic**
	Flashlight	**Automatic**
Electrical specifications	Operating voltage	**4.8V...7.4V DC**
	Stand-by consumption	**110µA @ 7.2V DC**
	Alarm consumption	**0.48A @ 7.2V DC**
	Battery	**7.2V/13Ah Li**
	Battery autonomy	**>4 years**
Physical specifications	Environmental class	**III**
	Casing	**ASA /ABS**
	Dimensions (L x H x D)	**211 x 315 x 98mm**
	Weight (w/o battery)	**2.25kg**

DETECTORS

RIVELATORI

FOR INDOOR USE - FOR OUTDOOR USE

Tecnoalarm has achieved over the years a great deal of experience in the design and production of intrusion detectors.
The knowledge and the mastery of the best detection technologies has produced a wide range of detectors, offering the right solution for every type of protection, from the protection of small apartments up to the most complex protections of large outdoor areas.

INDOOR

Detectors for indoor use
The range of indoor detectors is composed of two types of products: infrared and dual technology detectors. It comprises different models for different types of coverage, some of which equipped with anti-masking protection.

OUTDOOR

Detectors for outdoor use
The range of outdoor detectors provides several models for the protection of the perimeter close to the building, using the active and passive infrared technology. Long range microwave and infrared barriers are able to monitor and protect the perimeter of large outdoor areas.

Detectors

Dual technology for indoor use

TWINTEC **TWINTEC MASK**	Both detectors work with the AND and WALK detection logics, which can be combined with the RDV® technology. The self test and the temperature compensation functions complete a set of sophisticated diagnostic functions. The detector TWINTEC MASK is equipped with an antimasking protection, which, in the event of a masking attempt, induces the detector automatically to adopt the Walk logic.

EN 50131-1 COMPLIANT

TWINTEC 18		AND WALK LOGIC	RDV	SELF TEST	TEMPERATURE COMPENSATION	RANGE 18m	
The detector is compliant with EN 50131-2-4- Security grade 2.							
Item no. F102TWIN18/V MW frequency 10.525GHz							
Item no. F102TW18/V-99 MW frequency 9.9GHz							
Item no. F102TW18/V-93 MW frequency 9.35GHz							
TWINTEC MASK 18	ANTI-MASK	AND WALK LOGIC	RDV	SELF TEST	TEMPERATURE COMPENSATION	RANGE 18m	
The detector is compliant with EN 50131-2-4- Security grade 3.							
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							

N.B. For the coverage diagrams see the TWINTEC BUS and TWINTEC MASK BUS detectors in the RSC® section of this catalogue.

TWINTEC - TWINTEC MASK - Technical and functional specifications

Detection features	Microwave frequency	**10.525GHz***
	Sensitivity	**Adjustable 3m...18m +/- 20%**
	Infrared beams	**29**
	Levels (infrared beams)	**4**
	Max. range	**18m**
Detection logics	AND	**IR + MW**
	OR**	**IR or MW**
	WALK	**IR + MW or MW + MW**
	AND + RDV®	**IR + MW with Doppler filter**
	WALK + RDV®	**MW + MW with Doppler filter**
Coverage	IR	**108°**
	MW	**72° horiz. - 36° vert.**
Outputs	Alarm	**NC - electronic relay**
	Tamper	**NC - micro-switch**
	Mask**	**NC - electronic relay**
Inputs	Stby	**Negative stand-by input**
	Sync	**Synchronization input**
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
	Antimasking**	**Programmable**

Functions	Self test	**Automatic**
	Temperature compensation	**Automatic**
Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**9V...15V DC**
	Consumption TWINTEC	**Stand-by 17mA @ 12V DC**
		Max. 25mA @ 12V DC
	Consumption TWINTEC MASK	**Stand-by 27mA @ 12V DC**
		Max. 30mA @ 12V DC
Contact type	Programmable	**NC - EOL resistor - DEOL resistor**
Physical specifications	Environmental class	**II**
	Protection class	**IP30-IK02**
	Casing	**ABS**
	Dimensions (L x H x D)	**68 x 118 x 51mm**
	Weight	**160g**
	Operating temperature	**-10°C...+55°C**
Conformity	Standards	**EN 50131-2-4**
	Security grade TWINTEC	**2**
	Security grade TWINTEC MASK	**3**
	Notified body	**IMQ**

** Also available with the frequencies 9.9GHz and 9.35GHz (see table of models)*
*** Only available with TWINTEC MASK*

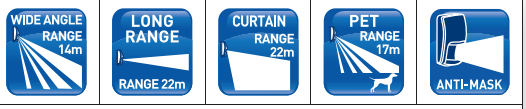
According to the CEPT T/R 70-03 recommendation, the device can operate in the listed countries

9.35GHz*	A	B	BG	CH	CY	CZ	D	DK		EST			FL	GE	GR	H	HR		IRL	IS	L	LT	LV	M	N	NL	PL	P	RO		SLO	SK
9.9GHz*	A	B	BG	CH	CY	CZ		DK		EST	F	FIN	FL	GE	GR	H	HR	I	IRL	IS	L	LT	LV	M	N	NL	PL	P	RO		SLO	
10.525GHz*		B	BG	CH	CY			DK	E				FL	GE	GR	H	HR	I	IRL	IS	L	LT	LV	M	N	NL	PL	P	RO	S	SLO	

* Center frequency indicated on the data label inside the product

Passive infrared for indoor use

INFROTEK
INFROTEK MASK



Passive infrared detectors for indoor use - Programmable sensitivity and pulse count - Available with 4 different lens patterns: wide angle, long range, curtain, wide angle pet and ranges from 14m to 22m.
N.B. The detector INFROTEK MASK is equipped with an antimasking protection.

INFROTEK/V	**Item no. F102INFROTEK/V** Wide angle - 14m
INFROTEK/C	**Item no. F102INFROTEK/C** Long range - 22m
INFROTEK/T	**Item no. F102INFROTEK/T** Curtain - 22m
INFROTEK/PET	**Item no. F102INFROTEK/PE** Pet - 17m
INFROTEK MASK	**Item no. F102INFROTEK/VM** Wide angle - 18m

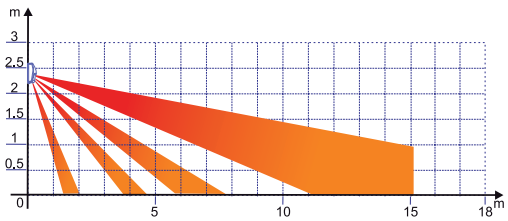
INFROTEK - INFROTEK MASK - Technical and functional specifications

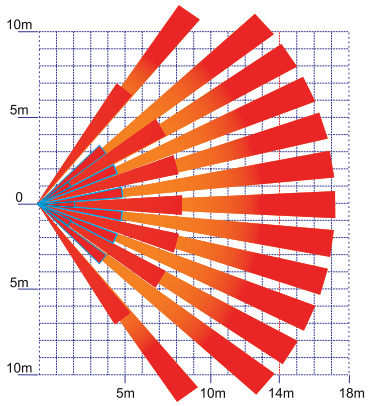
Detection features INFROTEK/V INFROTEK MASK	Infrared beams INFROTEK/V	**22**
	Infrared beams INFROTEK MASK	**29**
	Levels (infrared beams)	**4**
	Coverage	**108°**
Outputs	Alarm	**NC - electronic relay**
	Tamper	**NC - micro-switch**
	Mask*	**NC - electronic relay**
Inputs	Stby	**Positive/negative stand-by input**
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
	Antimasking*	**Programmable**
Functions	Temperature compensation	**Automatic**

Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10.5V...14.5V DC**
	Consumption INFROTEK	**Stand-by 5mA @ 12V DC**
		Alarm 10mA @ 12V DC
	Consumption INFROTEK MASK	**Stand-by 15mA @ 12V DC**
		Alarm 22mA @ 12V DC
Contact type	Programmable	**NC - EOL resistor - DEOL resistor**
Physical specifications	Environmental class	**II**
	Protection class	**IP30-IK02**
	Casing	**ABS**
	Dimensions (L x H x D)	**68 x 118 x 51mm**
	Weight	**150g**
	Operating temperature	**+5°C...+40°C**

** Only available with INFROTEK MASK*

Coverage diagrams





Detectors

OMNISPACE

Passive infrared detector for indoor use - Ceiling mounting at a maximum height of 8m - Alarm memory - Pulse count

Item no. F102OMNISPACE

OMNISPACE - Technical and functional specifications

Detection features	Infrared beams	**40**
	Coverage	**360°**
	Coverage (diameter @ 3m height)	**10m**
	Mounting height	**2.1m...8m**
Outputs	Alarm	**NC - electronic relay**
	Tamper	**NC - micro-switch**
Inputs	Stby	**Negative stand-by input**
Anti-tamper protection	Anti-opening	**Micro-switch**

Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10V...14V DC**
	Stand-by consumption	**13mA @ 12V DC**
	Alarm consumption	**18mA @ 12V DC**
Physical specifications	Environmental class	**II**
	Protection class	**IP30-IK02**
	Casing	**ABS**
	Dimensions (Ø x H)	**110 x 50mm**
	Weight	**154g**
	Operating temperature	**+5°C...+40°C**

IR2000

Passive infrared detector - Pulse count - Available with 3 different lens patterns: wide angle, long range, curtain, wide angle pet and ranges from 14m to 22m

IR2000/V	**Item no. F102IR2000/V** Wide angle - 14m
IR2000/C	**Item no. F102IR2000/C** Long range - 22m
IR2000/T	**Item no. F102IR2000/T** Curtain - 22m

IR2000 - Technical and functional specifications

Detection features IR2000/V	Infrared beams	**22**
	Levels (infrared beams)	**4**
	Coverage	**100°**
Outputs	Alarm	**NC - electronic relay**
	Tamper	**NC - micro-switch**
Inputs	Stby	**Negative stand-by input**
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**

Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10.5V...14.5V DC**
	Stand-by consumption	**5.5mA @ 12V DC**
	Alarm consumption	**13mA @ 12V DC**
Physical specifications	Environmental class	**II**
	Casing	**ABS**
	Dimensions (L x H x D)	**62 x 94 x 41mm**
	Weight	**70g**
	Operating temperature	**+5°C...+40°C**

TWINTEC - INFROTEK - IR2000 - Accessories

KEY

Opening instrument for IR2000 detectors

Item no. F102CHIAVEIR

SNODO 2000

Self-protected swivel mounting bracket for TWINTEC, INFROTEK series detectors, TWINBAND WL and IR500 BWL - 90° hor. and 30° vert. orientation (sold in packs of 10)

Item no. F102SNODO2000

DUALRED

AND OR LOGIC | SELF TEST | TEMPERATURE COMPENSATION | RANGE 5m | IP34

The detector DUALRED offers a reliable protection of doors and windows. It is composed of two physical/logical units, a dual PIR sensor and an internal magnetic contact. Alternatively to the internal contact, an external magnetic contact can be connected. The two physical/logical units can be programmed so as to function with the AND or the OR detection logic.
If the magnetic contact is opened during the arming phase, it is automatically excluded.
In this case, if the combined functioning has been set with the AND detection logic, the detector automatically adopts the OR logic.
The detector DUALRED can be used indoors or in sheltered outdoor areas, not directly exposed to the weather conditions. It is equipped with automatic diagnostic functions, such as self test and temperature compensation. Functioning parameters, such as sensitivity, range and pulse count are programmable

Item no. F102DUALRED White color

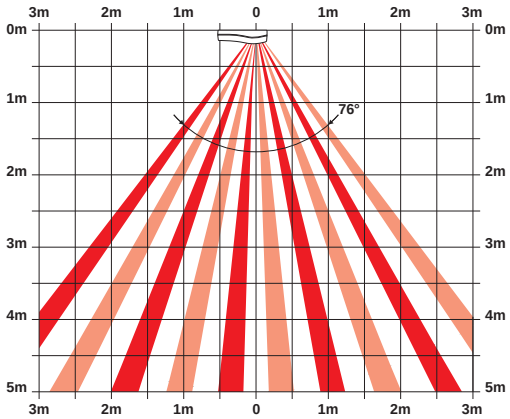
Item no. F102DUALREDM Brown color

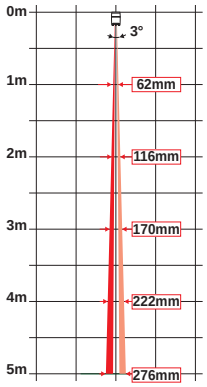
DUALRED - Technical and functional specifications

Physical/logical unit IR	IR elements	**2**
	Infrared beams	**10**
	Levels (infrared beams)	**2**
	Max. range	**5m**
	Sensitivity	**Programmable (2 settings)**
Physical/logical unit contact	Internal magnetic contact	**Reed ampulla**
	Input	**Magnetic contact**
	Self exclusion	**Programmable**
Detection logic	AND	**IR + contact**
	OR	**IR or contact**
	Pulse count	**1 or 3 pulses**
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
Outputs	Alarm	**NC - electronic relay**
	Tamper	**NC - electronic relay**

Inputs	Stby	**Negative stand-by input**
Functions	Self test	**Automatic**
	Temperature compensation	**Automatic**
Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10V...14.5V DC**
	Stand-by consumption	**20mA @ 12V DC**
	Alarm consumption	**25mA @ 12V DC**
Contact type	Programmable	**NC - EOL resistor - DEOL resistor**
Physical specifications	Environmental class	**II**
	Protection class	**IP34-IK02**
	Casing	**ASA**
	Dimensions (L x H x D)	**168 x 46 x 30mm**
	Weight	**80g**
	Operating temperature	**-20°C...+55°C**

Coverage diagrams

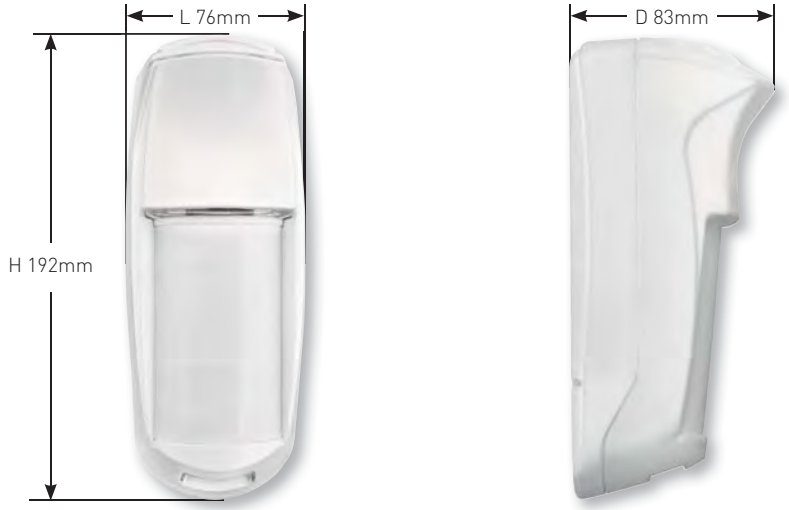




Dual technology for outdoor use

GLOBAL SPACE

The GLOBAL SPACE is a dual technology detector for outdoor mounting with a multi-point technology: triple infrared and microwave. The very tight protection, made of 43 infrared beams distributed on 5 levels, combined with a microwave beam, is capable of satisfying any security requirement.
The programmable AND detection logic permits the adaptation of the detector's functioning to the caracteristics of the area to be protected.
The detector is equipped with a programmable antimasking function and automatic diagnostic functions, such as self test and temperature compensation.



GLOBAL SPACE - Technical and functional specifications

Detection features	Microwave frequency	**10.525GHz***
	IR elements	**3**
	Infrared beams	**43**
	Levels (infrared beams)	**5**
	Max. range	**15m**
	Infrared sensitivity	**Adjustable**
	Pulse count	**1 or 3 pulses**
Detection logics	AND adjacent beams	**2 adjacent IR + MW**
	AND single beam	**1 IR + MW**
	AND two beams with priority	**2 IR + MW with IR1 prior-ranking**
	AND two beams	**2 IR + MW**
	AND + RDV®	**IR + MW + RDV®**
	Microwave	**Excludable**
Coverage	IR	**100°**
	MW	**72° horiz. - 36° vert.**
Outputs	Alarm	**NC - electronic relay**
	Tamper	**NC - electronic relay**
	Mask/Fail	**NC - electronic relay**
Inputs	Stby	**Negative stand-by input**

Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
	Antimasking	**Programmable**
Functions	Self test	**Automatic**
	Temperature compensation	**Automatic**
Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10V DC...14.5V DC**
	Consumption in stand-by	**30mA @ 12V DC**
	Max. consumption	**34mA @ 12V DC**
Contact type	Programmable	**NC - EOL resistor - DEOL resistor**
Physical specifications	Environmental class	**III**
	Protection class	**IP55-IK04**
	Casing	**ASA**
	Dimensions (L x H x D)	**76 x 192 x 83mm**
	Weight	**240g**
	Operating temperature	**-25°C...+55°C**

** Also available with the frequencies 9.9GHz and 9.35GHz (see table of models)*

GLOBAL SPACE

3 IR + 1 MW | AND LOGIC | ANTI - MASK | SELF TEST | RANGE 15m | TEMPERATURE COMPENSATION | IP55

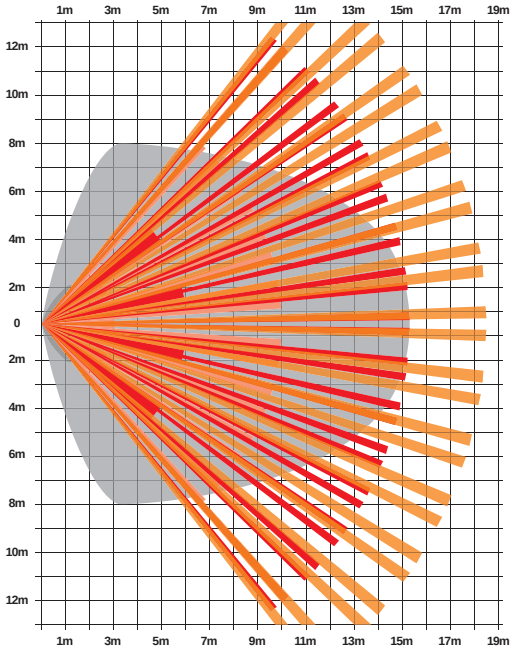
Compatible systems: TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440

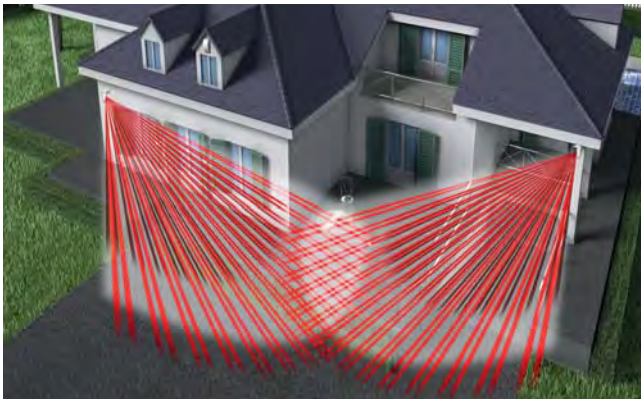
Item no. F102GLOSPACE MW frequency 10.525GHz

Item no. F102GLOSPACE/99 MW frequency 9.9GHz

Item no. F102GLOSPACE/93 MW frequency 9.35GHz

Coverage diagrams





GLOBAL SPACE - Accessories

CORNER MOUNTING BRACKET

Corner mounting bracket - 22.5° or 45° angle

Item no. F102STAFFAGLOB

RAIN COVER

Rain cover - Dimensions (L x H x D) 136 x 58 x 162mm

Item no. F102GLOCALOTTA

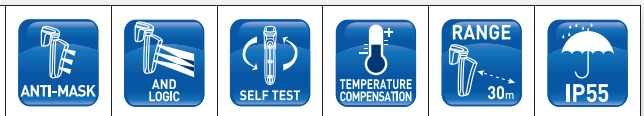
According to the CEPT T/R 70-03 recommendation, the device can operate in the listed countries

9.35GHz*	A	B	BG	CH	CY	CZ	D	DK		EST			FL	GE	GR	H	HR		IRL	IS	L	LT	LV	M	N	NL	PL	P	RO		SLO	SK
9.9GHz*	A	B	BG	CH	CY	CZ		DK		EST	F	FIN	FL	GE	GR	H	HR	I	IRL	IS	L	LT	LV	M	N	NL	PL	P	RO		SLO	
10.525GHz*		B	BG	CH	CY			DK	E				FL	GE	GR	H	HR	I	IRL	IS	L	LT	LV	M	N	NL	PL	P	RO	S	SLO	

* Center frequency indicated on the data label inside the product

Passive infrared for outdoor use

TRIRED	
	The triple passive infrared detector, designed for outdoor use, is resistant to extreme weather conditions, and is an ideal solution for the protection of the areas close to homes, such as balconies and terraces, with ranges of up to 30 meters. The integrated swivel mounting bracket offers ample opportunities for orientation. The detector features 8 AND detection logics and 3 independent alarm counters (1 for each beam), as well as an antimasking function, which adapts the detection logic to AND of 2 beams in case of a masking attempt. **Item no. F102TRIRED**

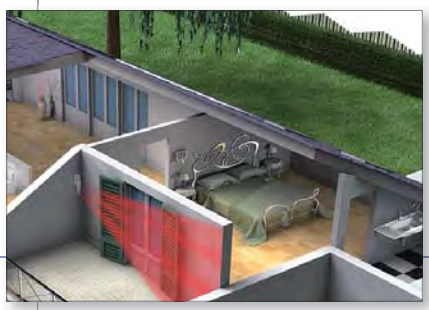


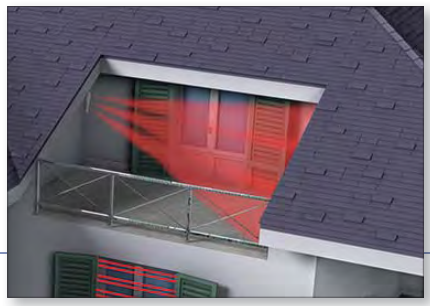
N.B. For the coverage diagrams see the TRIRED BUS detector in the RSC® section of this catalogue.

TRIRED - Technical and functional specifications

Detection features	IR elements	**3 dual elements**
	Infrared beams	**3**
	Levels (infrared beams)	**3**
	Max. range	**30m**
Detection logics	AND of 2 undefined beams	**1 mode**
	AND of 2 defined beams	**3 modes**
	AND of 3 undefined beams	**1 mode**
	AND of 3 beams with priority	**3 modes**
	Pulse count	**Independent for each beam**
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**
	Antimasking	**Programmable (independent for each beam)**
Outputs	Alarm	**NC - electronic relay**
	Tamper	**NC - electronic relay**
	Antimasking	**NC - electronic relay**
	Failure	**+12V DC**

Inputs	Stby	**Negative stand-by input**
Functions	Self test	**Automatic (independent for each beam)**
	Temperature compensation	**Automatic**
Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10V...14.5V DC**
	Stand-by consumption	**27mA @ 12V DC**
	Alarm consumption	**25mA @ 12V DC**
Contact type	Programmable	**NC - EOL resistor - DEOL resistor**
Physical specifications	Environmental class	**II**
	Protection class	**IP55-IK04**
	Casing	**ASA**
	Dimensions (L x H x D)	**82 x 400 x 260mm**
	Weight	**1.2kg**
	Operating temperature	**-20°C...+65°C**





Active infrared for outdoor use

QUADBEAM	Active infrared barrier - 4 infrared beams - Disqualification function - Available with 100 or 200 meters range				
	QUADBEAM 100 Item no. F102QUADBEAM100		TX + RX 2 BEAMS	RANGE 100m	IP45
	QUADBEAM 200 Item no. F102QUADBEAM200		TX + RX 2 BEAMS	RANGE 200m	IP45

QUADBEAM - Technical and functional specifications

Detection features	Infrared beams	**4**
	Range QUADBEAM 100	**100m**
	Range QUADBEAM 200	**200m**
	Response time	**Programmable**
Outputs	Alarm	**NC - electronic relay**
	Tamper	**NC - switch**
	Failure	**NC - electronic relay**
Anti-tamper protection	Anti-opening	**Micro-switch**

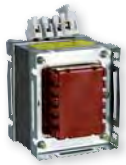
Electrical specifications	Rated voltage	**12V DC**
	Operating voltage	**10.5V...14.5V DC**
	Stand-by consumption TX	**43mA @ 12V DC**
	Stand-by consumption RX	**18mA @ 12V DC**
Physical specifications	Environmental class	**IV**
	Protection class	**IP45**
	Casing	**PC Makrolon**
	Dimensions (L x H x D)	**102 x 436 x 106mm**
	Weight	**1.36kg**
	Operating temperature	**-5°C...+55°C**

QUADBEAM - Accessories

HEATER KIT

Thermostat and heater module for QUADBEAM (kit for one pair of barriers)

Item no. F102QUADBRISC



TA1/N3 TRANSFORMER KIT

220/18V AC 60VA transformer kit for QUADBEAM, EXPLORER II and EXPLORER BUS

Item no. F102TRASF.BARR.

POST

Galvanized mounting post for DUALBEAM WL and QUADBEAM - Dimensions (Ø x H) 50 x 1500mm

Item no. F102PALOBEAM

MOUNTING KIT

Post mounting kit for DUALBEAM WL and QUADBEAM (kit for one transmitter and receiver pair)

Item no. F102KITPALOBEAM

ALIGNMENT KIT

Suitcase with optical viewfinder and shutters for DUALBEAM WL, QUADBEAM and BEAMTOWER

Item no. F102KITMIRINO

SHUTTERS

Shutters for DUALBEAM WL, QUADBEAM and BEAMTOWER (sold in packs of 10)

Item no. F102KITATTENUA

MONITOR 868

Wireless receiver for alignment of DUALBEAM WL, QUADBEAM, BEAMTOWER and EXPLORER BUS

Item no. F102MONITOR868

Microwave for outdoor use

MINIEXPLORER

TX + RX | 2 CHANNELS | RANGE 45m | IP65

Microwave barrier for outdoor perimeter protection - Highly immune to weather conditions, light reflection and RFI/EMI - Programmable transmission channel allowing to build configurations with a combination of several barriers per track without causing inferences

Item no. F102MINIEXPL White color

Item no. F102MINIEXPL/V Green color

MINIEXPLORER - Technical and functional specifications

Detection features	Max. range	**45m**
	Operating frequency	**10.525GHz (50% impulse)**
	TX channels	**Programmable (5.5KHz - 7.8KHz)**
	Emission power	**≤500mW**
Outputs	Alarm	**NC - electronic relay**
	Tamper	**NC - switch**
	Failure	**NC - electronic relay**
Inputs	Stby	**Stand-by input**
Anti-tamper protection	Anti-opening	**Micro-switch**

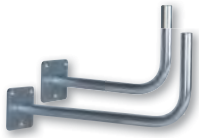
Electrical specifications	Rated voltage	**13.8V DC**
	Operating voltage	**10V...14.5V DC**
	Max. consumption TX	**55mA @ 13.8V DC**
	Max. consumption RX	**40mA @ 13.8V DC**
Physical specifications	Environmental class	**IV**
	Protection class	**IP65**
	Casing	**ASA**
	Dimensions (L x H x D)	**173 x 216 x 131mm**
	Weight	**1.90 kg**
	Operating temperature	**-25°C...+55°C**

MINIEXPLORER - Accessories

POST

Mounting post for MINIEXPLORER - Zinc-coated - Height 1200mm

Item no. F102PALO120



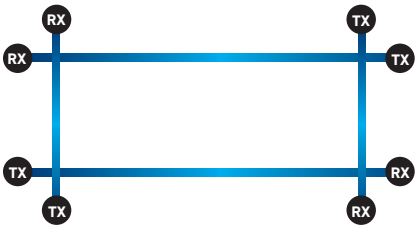
MOUNTING BRACKET

Wall mounting bracket for MINIEXPLORER - Zinc-coated - Length 25cm or 35cm

Item no. F102STAFFA25

Item no. F102STAFFA35

Perimeter protection with microwave barrier MINIEXPLORER/EXPLORER II



4-sides perimeter configuration

EXPLORER II	Microwave barrier for the protection of outdoor perimeters with a high security risk - Highly immune to weather conditions, light reflection and RFI/EMI - Programmable transmission channel allowing to build configurations with a combination of several barriers per track without causing inferences - Available with 3 different ranges

EXPLORER II 0600 Item no. F102BAR.0600		TX + RX	4 CHANNELS	RANGE 60m	IP65
EXPLORER II 1200 Item no. F102BAR.1200		TX + RX	4 CHANNELS	RANGE 120m	IP65
EXPLORER II 1800 Item no. F102BAR.1800		TX + RX	4 CHANNELS	RANGE 180m	IP65

EXPLORER II - Technical and functional specifications

Detection features	Range EXPLORER II 0600	**60m**
	Range EXPLORER II 1200	**120m**
	Range EXPLORER II 1800	**180m**
	Operating frequency	**10.525GHz (50% impulse)**
	TX channels	**Programmable (5.5KHz - 7.8KHz)**
	Emission power	**≤500mW**
Outputs	Alarm	**NC - electronic relay**
	Tamper	**NC - switch**
	Failure	**NC - electronic relay**
Inputs	Stby	**Stand-by input**
Anti-tamper protection	Anti-opening	**Micro-switch**
	Anti-twist	**Mechanical**
Electrical specifications AC power supply	Rated voltage	**18V AC**
	Max. consumption TX	**260mA @ 18V AC**
	Max. consumption RX	**100mA @ 18V AC**

Electrical specifications DC power supply	Rated voltage	**9V...15V DC**
	Operating voltage	**13.8V DC**
	Max. consumption TX	**110mA @ 13.8V DC**
	Max. consumption RX	**60mA @ 13.8V DC**
	Battery	**12V/2.1Ah**
	Current available for battery recharge	**240mA**
Physical specifications	Environmental class	**IV**
	Protection class	**IP65**
	Casing	**Al + ASA**
	Dimensions (Ø x H)	**310 x 239.5mm**
	Weight (w/o battery)	**5.2kg**
	Operating temperature	**-25°C...+55°C**

EXPLORER II - Accessories

POST

Mounting post for EXPLORER II and EXPLORER BUS - zinc-coated - Dimensions (Ø x H) 60 x 1500mm

Item no. F102PALI

TA1/N3 TRANSFORMER KIT

220/18V AC 60VA transformer kit for QUADBEAM, EXPLORER II and EXPLORER BUS

Item no. F102TRASF.BARR.

MOUNTING BRACKET

Wall mounting bracket for EXPLORER II and EXPLORER BUS - Zinc-coated - Length 22cm or 42cm

Item no. F102STAFFAEXPL

Item no. F102STAFFAEX42

TECNOTESTER

Tester for alignment of EXPLORER II

Item no. F102TESTEREXPL

SIRENS

FOR INDOOR USE - FOR OUTDOOR USE

The acoustic warning devices of Tecnoalarm are designed to satisfy the most sophisticated security requirements, in compliance with the current standards and regulations. The sirens of Tecnoalarm provide the highest levels of intrinsic safety and functionality, whether it be a sounder for indoor or outdoor use. The elegant and functional Pininfarina design allows a perfect blending with every architectural framework.

INDOOR

Sirens for indoor use
Among the indoor sirens of Tecnoalarm, SIRTEC represents the flagship model. Its characteristics are remarkable: high sound level (117dB) guaranteed by the use of a magneto-dynamic speaker, great autonomy thanks to a 2Ah lead-acid battery, battery recharge guaranteed with 10.5V, programmable alarm time.
These are top range distinctive features which establish a new reference for this family of devices.

OUTDOOR

Sirens for outdoor use
With the range of sirens SAEL 2010, Tecnoalarm innovates and reconfigures the concepts of safety, reliability, performance and power consumption of outdoor sirens: greater security, thanks to sophisticated anti-tamper protections, total reliability, guaranteed by self test functions that ensure full operational efficiency, differentiated signaling with dynamic light effects, low power consumption thanks to state-of-the-art LED technology.

Tecnoalarm

Sirens

Sirens for indoor use

SIRTEC

EN 50131-1 COMPLIANT | SOUND LEVEL 117 dB(A) @1m | SOUND TYPE | STEP-UP BATTERY CHARGE | SELF POWERED | ABS BOX

Self-powered magneto-dynamic siren for indoor use - Programmable sound type - Programmable alarm time - Sound level 117dB(A) @ 1m - 12V/2.1Ah battery - Antistatic ABS casing - Design by Pininfarina - Dimensions (L x H x D) 290 x 95 x 70mm - Certified to EN 50131-4 - Security grade 2

Item no. F105SIRTEC White color

Item no. F105SIRTECGR Gray metallic color

SIREL 2000B

ABS BOX

Piezoelectric siren for indoor use - Differentiated sound level for alarm and prealarm - Antistatic ABS casing - Design by Pininfarina - Dimensions (L x H x D) 105 x 160 x 44mm - White color

Item no. F105SIREL2000

SIREL 2000L

LED | ABS BOX

Piezoelectric siren for indoor use - LED flashlight - Antistatic ABS casing - Design by Pininfarina - Dimensions (L x H x D) 105 x 160 x 44mm - White color

Item no. F105SIREL2000L

SIREL 2000F

XENON | ABS BOX

Piezoelectric siren for indoor use - Xenon flashlight - Antistatic ABS casing - Design by Pininfarina - Dimensions (L x H x D) 105 x 160 x 44mm - White color

Item no. F105SIREL2000F

SIREL 2000AUTO

SELF POWERED | ABS BOX

Self-powered piezoelectric siren for indoor use - LED flashlight - 9V alkaline battery - Antistatic ABS casing - Design by Pininfarina - Dimensions (L x H x D) 105 x 160 x 44mm - White color

Item no. F105SIREL2000AU

Sirens for outdoor use

SAEL 2010 LED

EN 50131-1 COMPLIANT

SELF POWERED | PROTECTION | SELF TEST | LED | ASA BOX | IP44

Self-powered magneto-dynamic siren for outdoor use - Optical antifoam protection - LED flashlight - Self test function - Sound level 103dB(A) @ 1m - 12V/2.1Ah battery - Casing: ABS base, ASA cover - Design by Pininfarina - Dimensions (L x H x D) 211 x 315 x 98mm - Certified to EN 50131-4 - Security grade 3 - Environmental class IIIA

Item no. F105SAEL2010LBI White ASA cover

Item no. F105SAEL2010LGR Gray metallic ASA cover

SAEL 2010 LED

EN 50131-1 COMPLIANT

SELF POWERED | PROTECTION | SELF TEST | LED | ALUMINUM BOX | IP44

The same as SAEL 2010 LED but with varnished or chrome-plated aluminum cover

Item no. F105SAEL2010LAL Varnished aluminum cover

Item no. F105SAEL2010LCR Chrome-plated aluminum cover

SAEL 2010PRO LED

EN 50131-1 COMPLIANT

SELF POWERED | PROTECTION | PROTECTION | SELF TEST | LED | ALUMINUM BOX | IP44

Self-powered magneto-dynamic siren for outdoor mounting - Optical antifoam protection - Anti-drilling protection - LED flashlight - Self test function - Sound level 103dB(A) @ 1m - 12V/2.1Ah battery - Casing: ABS base, aluminum cover - Design by Pininfarina - Dimensions (L x H x D)
211 x 315 x 98mm - Certified to EN 50131-4 - Security grade 4 - Environmental class IIIA

Item no. F105S2010PROL Varnished aluminum cover

POWER SUPPLIES

In electronic equipment, especially in the field of security systems, the role of power supplies 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' power requirements, the efficiency and reliability, in full compliance with the electrical safety standards.

EPS POWER SUPPLY

External power supplies
The external power supplies of Tecnoalarm comply with the standards that govern the design and construction of professional power supply systems for the security system industry. They are equipped with switching Fly-back power supplies with PFC (Power Factor Correction) circuits mounted in metal casings capable of housing batteries that ensure the capacity required by the standards. The power supply systems provide sophisticated self test functions and detailed information on the functional status of the equipment.

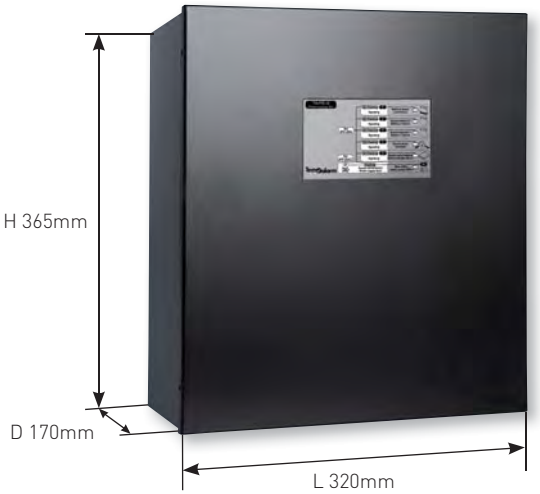
SWITCHED POWER SUPPLY

Power supplies
The switching power supplies feature the Fly-back technology.
The model ALSW148PFC is equipped with a PFC (Power Factor Correction) circuit, which increases the electric efficiency to a score of more than 90%, reducing significantly the energy consumption and heat radiation.
All models comply with the directives EMC (Electromagnetic Compatibility) and LVD (Low Voltage) and are provided with the Certificate with Surveillance (CSV) issued by the Italian Institute for the Quality Mark (IMQ).

TAPS-8
Power supply 12V
Flashing
On
Signaling
Batteria bassa
Low battery
Guasto batteria 2
Battery 2 failure
Guasto batteria 1
Battery 1 failure
Sovraccarico
Overload
Guasto carica batterie
Battery charger failure
Out
EPS LOSS
Out
APS FAULT
Off
Guasto alimentatore
Power supply fault
Rete 230V~
Mains power 230V~
Tecnoalarm
Power Supply: ALSW148PFC
Input voltage: 230V~ +10%-15% 50/60Hz
Max input current: 600mA
Output: 14,4V — I max: 8A
Further information on the technical manual
-V -V +V +V
OUTPUT

Power supplies

External power supplies



TAPS-8

CERTIFIED EN 50131-1 EN 50131-6 | 13.8V 8A | 5 OUTPUTS 1.1A | PFC POWER FACTOR CORRECTION | SELF TEST | METAL BOX

External power supply - Self test function - Automatic disconnection of the batteries in case of deep discharge - Detailed status signaling is available through 6 LED on the front panel - Max. output current 8A @13.8V DC - 2x 12V/17Ah batteries - Metal casing - Black color - Certified to EN 50131-6 - Security grade 2

Item no. F107TAPS-8

TAPS-8 - Technical and functional specifications

General features	Type	**8A/13.8V DC type A**
Electrical output specifications	Power supply outputs	**5**
	Output voltage	**12.5V...13.8V DC**
	Max. ripple	**≤50mV p-p**
	Available current	**1.1A @13.8V DC per output**
	Battery recharge current	**Max. 850mA**
	Current available for loads	**Max. 5.5A**
	Overvoltage signal	**>16V +/- 10%**
Failure outputs	Power supply lost	**NC - electronic relay**
	Power supply failure	**NC - electronic relay**
Signaling LED	Low battery	✓
	Failure battery 1	✓
	Failure battery 2	✓
	Overcharge	**1 LED per output**
	Power supply failure	✓
	Power supply status	✓
Anti-tamper protection	Anti-opening and anti-detachment	**Micro-switch**

External power supply	Type	**8A/14.4V DC switching Fly-back**
	Operating voltage	**230V AC +10% -15% 50Hz**
	Max. consumption	**600mA AC**
Batteries (Storage Device)	Capacity	**2x 12V/17Ah**
	Battery test	**Automatic**
	Low battery threshold	**10.8V DC**
	Charging time	**80% ca. 19h (2 batteries of 17Ah)**
	Autonomy	**12h (2.83Ah*)**
Physical specifications	Environmental class	**II**
	Casing	**Metal**
	Dimensions (L x H x D)	**320 x 365 x 170mm**
	Weight	**5.8kg**
	Operating temperature	**-10°C...+ 55°C**
Conformity	Standards	**EN 50131-6**
	Security grade	**2**
	Notified body	**IMQ**

** Available current for loads in case of power failure*

UPS1260

13.8V 6A | 4 OUTPUTS 1.2A | METAL BOX

External power supply - Max. output current 6A @13.8V DC - 12V/17Ah battery - Metal casing - Black color

Item no. F107UPS1260

UPS1260 - Technical and functional specifications

General features	Type	**6A/13.8V DC**
Electrical output specifications	Power supply outputs	**4**
	Rated output voltage	**13.8V DC**
	Max. ripple	**≤160mV p-p**
	Available current	**1.1A @13.8V DC per output**
	Battery recharge current	**Max. 1.2A**
	Current available for loads	**Max. 4.4A**
Signaling LED	Overcharge	**1 LED per output**
Anti-tamper protection	Anti-opening	**Micro-switch**

Electrical specifications	Type	**6A/14.4V DC**
	Operating voltage	**230 V AC +10% -15% 50 Hz**
	Max. consumption	**625mA AC**
	Battery	**12V/17Ah**
Physical specifications	Environmental class	**II**
	Casing	**Metal**
	Dimensions (L x H x D)	**320 x 365 x 170mm**
	Weight	**4.8kg**
	Operating temperature	**-10°C...+ 55°C**

UPS2435

27.8V 3.5A | 4 OUTPUTS 700mA | METAL BOX

External power supply - Max. output current 3.5A @ 27.8V DC - 2x 12V/17Ah batteries - Metal casing - Black color

Item no. F107UPS2435

UPS2435 - Technical and functional specifications

General features	Type	**3.5A/27.8V DC**
Electrical output specifications	Power supply outputs	**4**
	Rated output voltage	**27.8V DC**
	Max. ripple	**≤180mV p-p**
	Available current	**700mA @27.8V DC per output**
	Battery recharge current	**Max. 700mA**
	Current available for loads	**Max. 2.8A**
Signaling LED	Overcharge	**1 LED per output**
Anti-tamper protection	Anti-opening	**Micro-switch**

Electrical specifications	Type	**3.5A/27.8V DC**
	Operating voltage	**230 V AC +10% -15% 50 Hz**
	Max. Consumption	**800mA AC**
	Battery	**2x 12V/17Ah**
Physical specifications	Environmental class	**II**
	Casing	**Metal**
	Dimensions (L x H x D)	**320 x 365 x 170mm**
	Weight	**4.8kg**
	Operating temperature	**-10°C...+ 55°C**

Power supplies

ALSW148PFC

CSV | EN 60950-1 50130-4 | 14.4V 8A | PFC POWER FACTOR CORRECTION

Switching Fly-back power supply with PFC circuit - Max. output current 8A @ 14.4V DC - Metal casing - Dimensions (L x H x D) 175 x 53 x 108mm - Certified to EN 60950-1 and EN 50130-4:2011

Item no. F107ALSW148PFC

ALSW146

CSV | EN 60950-1 50130-4 | 14.4V 6A

Switching Fly-back power supply - Max. output current 6A @14.4V DC - Metal casing - Dimensions (L x H x D) 137 x 53 x 108mm - Certified to EN 60950-1 and EN 50130-4:2011

Item no. F107ALSW146

SOFTWARE

Whatever your professional mission, you will find in the Tecnoalarm software the most suitable solution to apply your business model.
Keep your customers loyal and expand your business by activating exclusive after-sales services. Four levels of access to the Tecnoalarm software, a world of constantly updated services with differentiated functions, all of which can be personalized with license plug-ins, allow to set up interesting management services for your customers.

PROGRAMMING

Programming
The programming software permits the configuration of the Tecnoalarm systems, either through the PROG USB interface or via the LAN network.

REMOTE MANAGEMENT

Remote management via telephone network
The remote management software, combined with a digital receiver/modem TECNOMODEM PSTN-GSM, permits the remote programming and control of the Tecnoalarm systems, via the PSTN and GSM-GPRS network.

TCP/IP

Remote management via Ethernet/WAN
The TCP/IP software allows to remotely program and control the Tecnoalarm systems, using a personal computer connected to the Ethernet or WAN network.

MONITORING

Monitoring
The Tecnomonitor software permits monitoring of one Tecnoalarm system either locally, through the PROG USB interface, or via the LAN network.

The Tecnoalarm software includes the Programming Data Check, which automatically compares the version of the configuration of the connected control panel with that saved in the archive and signals a possible discrepancy.

High Tech Security Systems
Licenza d'uso software Tecnoalarm
per Windows XP e Vista
Software di Telegestione
Telegestione
Planimetrie
Controllo Ins/dis
RSC
SMS
Remote IP
Avanzata
Sinottico
TecnoMSG
Dev IP
VCOD (SE)
S/N
Data
01 01 2011
MARIO ROSSI E C.

Software

SOFTWARE

Programming

PROGRAMMING

PROGRAMMING SOFTWARE

Programming software for Windows
The programming software permits the configuration of the Tecnoalarm systems, either through the PROG USB interface or via the LAN network.

Item no. F130SOFTWARE/RW

PROG USB

USB INTERFACE | RS232 INTERFACE | RS485 INTERFACE | TTL INTERFACE

Programming interface
The interface, paired with the programming software, allows to configure the Tecnoalarm systems locally. The connection with the system is made through the ports RS232, RS485 or TTL.
The connection with the PC is made using the included USB cable.

Item no. F130PROGUSB

Remote management

REMOTE MANAGEMENT

REMOTE MANAGEMENT SOFTWARE

Management software for Windows
The remote management software, combined with a digital receiver/modem TECNOMODEM PSTN-GSM, permits the remote programming and control of the Tecnoalarm systems, via the PSTN and GSM-GPRS network.

Item no. F130SOFTWARE/TW

TECNOMODEM PSTN-GSM

PSTN | GSM-GPRS | USB PORT | RS232 PORT | TCP/IP PORT

PSTN/GSM-GPRS modem
The modem, combined with the remote management software, allows to receive and manage the alarm notifications and remotely program and control the Tecnoalarm systems.
Communication interfaces: PSTN, GSM-GPRS - Connection ports: USB, RS232, TCP/IP

Item no. F104MODPSTNGSM

Remote management with TCP/IP

TCP/IP

TCP/IP

Management software for Windows
The TCP/IP software allows to receive and manage the alarm notifications and remotely program and control the Tecnoalarm systems, using a PC connected to the Ethernet or WAN network.
The software is protected by a hardware key (dongle).
The software is available in several configurations for the management of 10 to 1000 systems.

Included option 14

TCP/IP 10	**Item no. F130SWTCPIP/10**
TCP/IP 30	**Item no. F130SWTCPIP/30**
TCP/IP 50	**Item no. F130SWTCPIP/50**
TCP/IP 1000	**Item no. F130SWTCPIP**

PROG USB

USB INTERFACE | RS232 INTERFACE | RS485 INTERFACE | TTL INTERFACE

Programming interface
The interface, paired with the TCP/IP software, functions as a hardware key (dongle).
The connection with the PC is made using the included USB cable.

Item no. F130PROGUSB

Monitoring

MONITORING

TECNOMONITOR

Monitoring software for Windows
The Tecnomonitor software permits monitoring of one Tecnoalarm system either locally, through the PROG USB interface, or via the LAN network. The software is protected by a hardware key (dongle).

Included option 2

Item no. F130TECNOMONIT

PROG USB

USB INTERFACE | RS232 INTERFACE | RS485 INTERFACE | TTL INTERFACE

Programming interface
The interface, paired with the Tecnomonitor software, permits monitoring of one Tecnoalarm system locally. It also functions as a hardware key (dongle). The connection with the system is made through the ports RS232, RS485 or TTL. The connection with the PC is made using the included USB cable.

Item no. F130PROGUSB

Software

License options

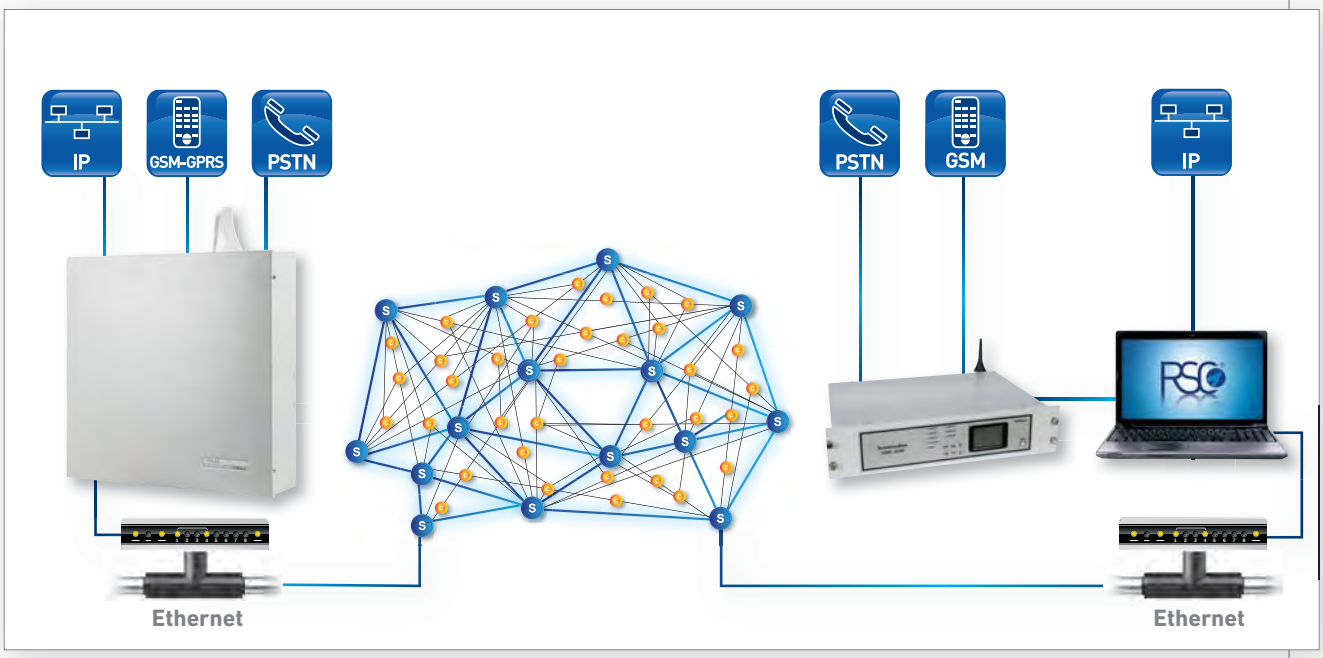
FLOOR PLANS **Item no. F130PLANIMETRIE**	License option for floor plan management. Permits the import, creation and management of 30 floor plans per system. Option **2**	PROGRAMMING	REMOTE MANAGEMENT	TCP/IP	MONITORING
ARMING/DISARMING CONTROL **Item no. F130CONINSDIS**	License option for arming/disarming control Permits the arming status check during a determined period of time. Option **3**		REMOTE MANAGEMENT	TCP/IP	
NETWORK **Item no. F130RETE**	License option for LAN connection of a total of 8 PC using the same user license. Option **4**		REMOTE MANAGEMENT	TCP/IP	
OUTPROT **Item no. F130OUTPROT**	License option for Out Prot protocol management Permits the recording and the transmission of events via serial bus to non-Tecnoalarm monitoring stations. Option **5**		REMOTE MANAGEMENT	TCP/IP	
RSC®	License option for management of the RSC® devices. Option **7**	PROGRAMMING	REMOTE MANAGEMENT	TCP/IP	
SMS **Item no. F130GESTIONESMS**	License option for SMS management Permits signaling of determined events via SMS. Option **8**		REMOTE MANAGEMENT		
REMOTE IP **Item no. F130REMOTEIP**	License option for remote management via LAN and WAN through a virtual modem. Option **9**		REMOTE MANAGEMENT	TCP/IP	
ADVANCED PROGRAMMING LEVEL 1	License option for the first advanced programming level of the compatiblecontrol panels. Option **10**	PROGRAMMING	REMOTE MANAGEMENT	TCP/IP	
ADVANCED PROGRAMMING LEVEL 2 **Item no. F130AVANZATA**	License option for the second advanced programming level of the compatible control panels. Option **11**	PROGRAMMING	REMOTE MANAGEMENT	TCP/IP	
SINOTTICO **Item no. F130SINOTTICO**	License option for the management of a virtual signaling panel. Permits the import, creation and management of an interactive signaling panel with a total of 512 elements providing 5 system status signals each. N.B. Only in combination with the REMOTE IP license. Option **14**		REMOTE MANAGEMENT	TCP/IP	
TECNOMSG **Item no. F130TECNOMSG**	License option for the customization of the vocabulary of control panels with voice synthesis Option **15**		REMOTE MANAGEMENT	TCP/IP	
DEVICE IP	License option for management of the Videoalarm IP systems Option **19**	PROGRAMMING	REMOTE MANAGEMENT	TCP/IP	
TECNOFIRE **Item no. F130FIRE**	License option for management of the Tecnofire fire alarm systems Option **23**	PROGRAMMING	REMOTE MANAGEMENT	TCP/IP	

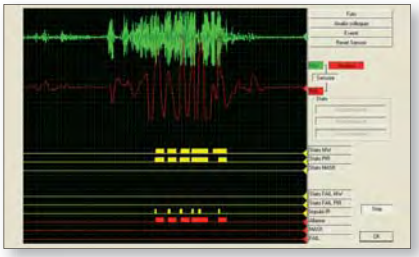
Services

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

Remote management

The remote management software is an investment which increases the professional value of your activity and reduces the costs of the management of the systems. It allows to remotely assess the need for technical measures and to define the ordinary and preventive maintenance operations. Remote management minimizes the need for travelling the territory, and thus the connected costs. It allows to offer more and better services in less time.





ACCESSORIES

Tecnoalarm presents its customers a wide and accurate selection of system accessories, which complement and complete the range of products of its catalogue. The accessories meet stringent quality requirements and comply with the applicable product standards. Their interaction with the Tecnoalarm systems has been tested and evaluated in order to obtain an excellent functional synergy and the maximum technical satisfaction

Batteries
The range offers high quality rechargeable batteries produced by market-leading companies, standard size 12V lead-acid batteries with different capacity.

Cables
A whole range of multicore shielded electrical cables is available for the connection of burglar alarm equipment, flame-retardant, with different insulation classes and various configurations of diameter and sections, including twisted-pair cables.

Contacts
The range of contacts includes models of various sizes, materials and types, suitable for surface or flush mounting, specific models for any kind of frame material and structure and for any type of protection requirement, as well as models compliant with EN 50131-2-6.

NP12-12
valve regulated
lead acid battery
YUASA
TCN282

Accessories

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**

Flame-retardant cables

In the setup of a system, the installer must use cables compliant to the standard IEC 60332-3C.

CLASS 2
INSULATION 300/500V

Class 2 cables - Insulation 300/500V

ITEM	DESCRIPTION	EXTERNAL DIAMETER	HANKS	ITEM NO.
2x022	Shielded 2 x 0.22	3.4mm	100m*	**F11200000180**
4x022	Shielded 4 x 0.22	3.7mm	100m*	**F11200000200**
5x022	Shielded 5 x 0.22	3.9mm	100m*	**F11200000170**
6x022	Shielded 6 x 0.22	4.5mm	100m*	**F11200000301**
8x022	Shielded 8 x 0.22	4.6mm	100m*	**F11200000202**
10x022	Shielded 10 x 0.22	5.2mm	100m*	**F11200000203**
14x022	Shielded 14 x 0.22	5.6mm	100m*	**F11200000213**
20x022	Shielded 20 x 0.22	6.6mm	100m*	**F11200000214**
2x050+2x022	Shielded 2 x 0.50 + 2 x 0.22	4.3mm	100m*	**F11200000204**
2x050+3x022	Shielded 2 x 0.50 + 3 x 0.22	4.7mm	100m*	**F11200000205**
2x050+4x022	Shielded 2 x 0.50 + 4 x 0.22	4.9mm	100m*	**F11200000206**
2x050+5x022	Shielded 2 x 0.50 + 5 x 0.22	4.9mm	100m*	**F11200000220**
2x050+6x022	Shielded 2 x 0.50 + 6 x 0.22	5.2mm	100m*	**F11200000207**
2x050+8x022	Shielded 2 x 0.50 + 8 x 0.22	5.8mm	100m*	**F11200000208**
2x050+10x022	Shielded 2 x 0.50 + 10 x 0.22	5.8mm	100m*	**F11200000216**
4x075	Shielded 4 x 0.75	5.3mm	100m*	**F11200000230**
2x075+4x022	Shielded 2 x 0.75 + 4 x 0.22	5.0mm	100m*	**F11200000209**
2x075+6x022	Cavo schermato 2 x 0.75 + 6 x 0.22	5.7mm	100m*	**F11200000303**
2x075+8x022	Cavo schermato 2 x 0.75 + 8 x 0.22	5.9mm	100m*	**F11200000211**
2x075+10x022	Cavo schermato 2 x 0.75 + 10 x 0.22	6.2mm	100m*	**F11200000212**

** 500m spools upon request*

Accessories

CLASS 4
INSULATION 600/1000V

Class 4 cables - Insulation 600/1000V

ITEM	DESCRIPTION	EXTERNAL DIAMETER	HANKS	ITEM NO.
4x022	Shielded 4 x 0.22	3.7mm	200m*	**F11200000305**
6x022	Shielded 6 x 0.22	5mm	200m*	**F11200000302**
2x075+6x022	Shielded 2 x 0.75 + 6 x 0.22	5.7mm	200m*	**F11200000304**

TWISTED CABLE
CLASS 2
INSULATION 300/500V

Class 2 twisted-pair cables - Insulation 300/500V

ITEM	DESCRIPTION	EXTERNAL DIAMETER	HANKS	ITEM NO.
2x1+2x050	Shielded twisted-pair 2x 1 + 2x 0.50mm - White coating	5.6mm	100m*	**F11200000223**
2x1+2x(2x050)	Shielded twisted-pair 2x 1 + 2x (2x 050mm) - White coating	6.6mm	100m*	**F11200000226**
2x1+2x(2x050)	Shielded twisted-pair 2 x 1 + 2 x (2 x 0,.0) - Black coating	6.6mm	200m*	**F11200000224**
2x050+(1x1+1x050)+1x1	Shielded twisted-pair 2x 0.50 + (1x 1 + 1x 0.50) + 1x 1mm - For LCD 300/S	6.5mm	100m*	**F11200000228**
2x035+(2x022)+1x022	Shielded twisted-pair 2x 0.35 + (2x 0.22) + 1x 0.22mm	5mm	200m*	**F11200000229**

TWISTED CABLE
CLASS 4
INSULATION 600/1000V

Class 4 twisted-pair cables - Insulation 600/1000V

ITEM	DESCRIPTION	EXTERNAL DIAMETER	HANKS	ITEM NO.
2x1+2x050	Shielded twisted-pair 2x 1 + 2x 0.50mm - White coating	6,2mm	200m*	**F11200000225**
2x1+2x(2x050)	Shielded twisted-pair 2x 1 + 2x (2x 0.50mm) - White coating	7mm	200m*	**F11200000309**
2x1+2x(2x050)	Shielded twisted-pair 2x 1 + 2x (2x 0.50mm) - Black coating	7,2mm	200m*	**F11200000227**

LSZH
CLASS 2
INSULATION 300/500V

Class 2 halogen-free cables - Insulation 300/500V

ITEM	DESCRIPTION	EXTERNAL DIAMETER	HANKS	ITEM NO.
4x022	Shielded 4x 0.22mm	4mm	200m*	**F11200000240**
6x022	Shielded 6x 0.22mm	4.9mm	200m*	**F11200000241**
2x050+4x022	Shielded 2x 0.50 + 4x 0.22mm	5.4mm	200m*	**F11200000242**
2x075+4x022	Shielded 2x 0.75 + 4x 0.22mm	5.6mm	200m*	**F11200000243**

The use of LSZH cables with low emission of smoke and toxic gases is mandatory in public buildings (reference standard IEC 60332-3C).

LSZH TWISTED CABLE
CLASS 4
INSULATION 600/1000V

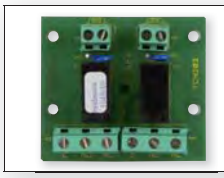
Class 4 halogen-free twisted-pair cables - Insulation 600/1000V

ITEM	DESCRIPTION	EXTERNAL DIAMETER	HANKS	ITEM NO.
2x1+2x(2x050)	Twisted-pair 2x 1 + 2x (2x 0.50mm)	6.6mm	200m*	**F11200000244**
2x035+(2x022)+1x022	Twisted-pair 2x 0.35 + (2x 0.22) + 1x 0.22mm	4.9mm	200m*	**F11200000245**

The use of LSZH cables with low emission of smoke and toxic gases is mandatory in public buildings (reference standard IEC 60332-3C).

**500m spools upon request*

Additional relay boards



BIRELE

Relay board with 2 independent 12V relays with potential-free control winding and outputs with free change-over contact

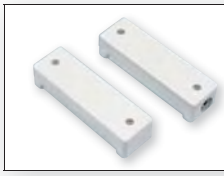
Item no. F127BIRELEN

BIRELE BOX

ABS casing for BIRELE - Dimensions (L x H x D) 70 x 117 x 52mm

Item no. F127BIRELENBOX

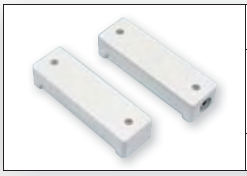
Reed contacts - Security grade 3



1001N EN 50131-1 COMPLIANT

Metal die cast - Triple balancing - Surface mounting - White - EN 50131-2-6 - Security grade 3

Item no. F1061001N

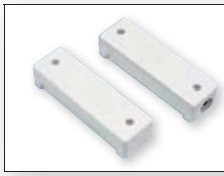


1021N EN 50131-1 COMPLIANT

As 1001N but with anti-detachment protection

Item no. F1061021N

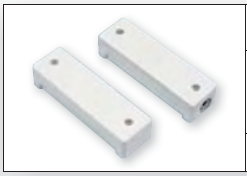
Reed contacts - Security grade 2



1003N EN 50131-1 COMPLIANT

Metal die cast - Double balancing - Surface mounting - White - EN 50131-2-6 - Security grade 2

Item no. F1061003N



1005N EN 50131-1 COMPLIANT

Metal die cast - For long-distance detection - Surface mounting - White - EN 50131-2-6 - Security grade 2

Item no. F1061005N

CTC 002

Aluminum - For metal doors - Surface mounting - EN 50131-2-6 - Security grade 2 (sold in packs of 2)

Item no. F106CTC 002

403 TF EN 50131-1 COMPLIANT

Plastic - Surface mounting - EN 50131-2-6 - Security grade 2 (sold in packs of 10)

Item no. F106403 TF

460 NS EN 50131-1 COMPLIANT

As 460 N but with change-over contact

Item no. F106460NS

460 N EN 50131-1 COMPLIANT

Aluminum - For iron frames - Surface mounting - EN 50131-2-6 - Security grade 2 (sold in packs of 2)

Item no. F106460N

CTC 013 EN 50131-1 COMPLIANT

Aluminum - 60cm cable - Surface mounting - EN 50131-2-6 - Security grade 2 (sold in packs of 5)

Item no. F106CTC 013

CTC 051

Aluminum - Miniaturized - Surface mounting - EN 50131-2-6 - Security grade 2 (sold in packs of 10)

Item no. F106CTC 051

355 EN 50131-1 COMPLIANT

Aluminum - Surface mounting - EN 50131-2-6 - Security grade 2 (sold in packs of 10)

Item no. F106355

455 EN 50131-1 COMPLIANT

Metal - For roller shutters - EN 50131-2-6 - Security grade 2 (sold in packs of 2)

Item no. F106455

462 N EN 50131-1 COMPLIANT

Aluminum - For iron frames - Surface mounting - EN 50131-2-6 - Security grade 2 (sold in packs of 2)

Item no. F106462N

450 N EN 50131-1 COMPLIANT

Aluminum - For swing doors - Surface mounting (on the ground) - EN 50131-2-6 - Security grade 2

Item no. F106450N

CTI 102 EN 50131-1 COMPLIANT

Brass - For metal frames - Flush mounting - EN 50131-2-6 - Security grade 2 (sold in packs of 5)

Item no. F106CTI 102

CTI 130 EN 50131-1 COMPLIANT

Brass - For metal frames - Flush mounting - EN 50131-2-6 - Security grade 2 (sold in packs of 2)

Item no. F106CTI130

Accessories

CTI 002

Brass - Flush mounting - EN 50131-2-6 - Security grade 2 (sold in packs of 10)

Item no. F106CTI 002

414 CTF

Galvanized brass - 30cm cable - Flush mounting - EN 50131-2-6 - Security grade 2 (sold in packs of 10)

Item no. F106414CTF

414 CTF2

Galvanized brass - 2m cable - Flush mounting - EN 50131-2-6 - Security grade 2 (sold in packs of 10)

Item no. F106414CTF2

423 TF

Plastic - Flush mounting - EN 50131-2-6 - Security grade 2 (sold in packs of 2)

Item no. F106423TF

415 TF - 415 TFM

Plastic - Flush mounting - White or brown - EN 50131-2-6 - Security grade 2 (sold in packs of 10)

Item no. F106415 TF

Item no. F106415 TFM

415 TF2

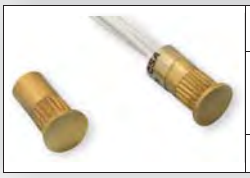
As 415 TF but with 2m cable

Item no. F106415TF2

CTE 045

Plastic - Surface mounting - White - EN 50131-2-6 - Security grade 2 (sold in packs of 5)

Item no. F106CTE 045

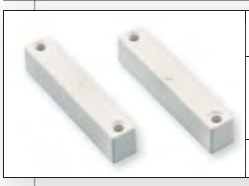


314

Brass - Flush mounting - EN 50131-2-6 - Security grade 2 (sold in packs of 10)

Item no. F106314

Reed contacts - Security grade 1



405 M

Plastic - Surface mounting - White - EN 50131-2-6 - Security grade 1 (sold in packs of 10)

Item no. F106405M

405 MM

As 405 M but brown

Item no. F106405MM

Mechanical rod and rope contacts

470

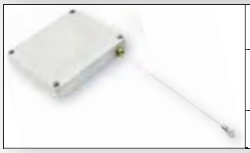
Rod contact for roller shutters (sold in packs of 5)

Item no. F106470

474

Rope slide

Item no. F106474



SW 912

Rope contact (sold in packs of 3)

Item no. F106SW 912

Flood detectors

1450

Flood detector - Programmable sensitivity - 12V or 24V power supply - Relay output with change-over contact - Max. 10 probes (sold in packs of 2)

Item no. F1061450

1450S

Probe for long-distance detection for 1450 (sold in packs of 2)

Item no. F1061450S

RPL108

Flood detector - Especially suitable for monitoring flooding of ditches and interspaces - Signaling LED for operating status - Free changeover relay with 1A 30V DC contacts - Operating voltage 10V...30V DC - 1m cable - IP68 - Casing ABS - Dimensions (L x H x D) 72 x 91 x 39mm

Item no. F106RPL108

Vibration detectors

CINEM5

Plastic - Timed alarm - Surface mounting
(sold in packs of 2)

Item no. F106CINEM5

444

Plastic 360° rotation
(sold in packs of 5)

Item no. F106444

CINSDIP65

Aluminum - For window grills and lattice windows - 5m cable - Upright surface mounting
(sold in packs of 2)

Item no. F106CINSDIP65

CINSD122

Plastic - Vibration detector with magnetic contact (independent functioning) -
For metal frames - Flush mounting
(sold in packs of 2)

Item no. F106CINSD122

Panic buttons

484I

Panic button - Anti-tamper protection - NC signaling and tamper outputs - Reset with a key

Item no. F106484I

484ME

Panic button - Anti-tamper protection - NC signaling and tamper outputs - Memory LED - Memory reset with power off - 12V power supply

Item no. F106484ME

485ME

Metal foot-operated panic button - NC signaling output - Memory LED - Memory reset with power off - 12V power supply

Item no. F106485ME

476

Panic button - Anti-tamper protection - Change-over micro-switch - Sealable protection lid

Item no. F106476

Optical repeaters

RIP R

Fix red light -
Operating voltage 9V...30V

Item no. F106RIPOTTR

RIP V

Fix green light -
Operating voltage 9V...30V

Item no. F106RIPOTTV

RIP G

Fix yellow light -
Operating voltage 9V...30V

Item no. F106RIPOTTG

Interfaces

PROG32

Serial printer interface - RS232
and RJ45 connection cables included

Item no. F130PROG32

Junction boxes

1465

Junction box
Anti-tamper protection - 20 terminals
(cable section max. 2.5mm2 -
Operating temperature -25°C...+70°C -
Aluminum casing - IP54 - White

Item no. F1061465