

TWINTeC BUS TWINTeC MASK BUS

Dual technology detectors
for indoor use



Tec[▶]alarm
Hi-Tech Security Systems

TWINTeC BUS-TWINTeC MASK BUS

Dual technology for indoor use

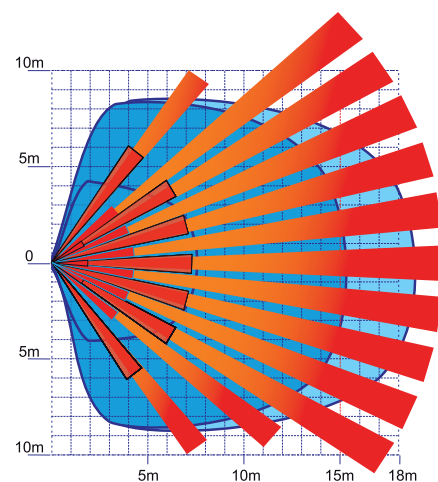
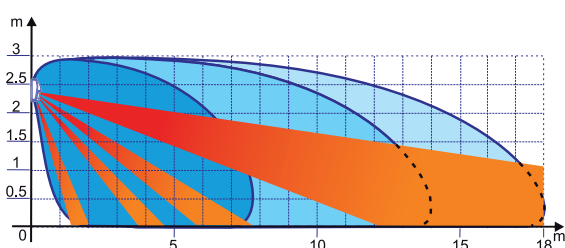
In the design of these detectors, Tecnoalarm has leveraged all its experience. The sophisticated digital processing of the signals detected by the infrared and microwave sensors permits a sure discrimination of the alarms.

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.



Coverage diagrams



Dual technology for indoor use

Performance level

During the drafting of the project of a burglar alarm system, it is necessary to thoroughly analyze the risks such as the location of the installation, the environmental risk, the possible interferences, the values to be protected and the security requirements of the customer.

According to the assessed risks, the European standards define up to 4 performance levels, and for each of them the compulsory protection facilities.

Protection level

The standards also define **three protection levels**:

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

The three protection levels



TWINTec BUS



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

Certified to 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



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

Certified to 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

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

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

9.35GHz*	AL	AT	BE	BA	BY	BG	CH	CY	CZ	DE	DK	EE				GR	HU	NL	HR	IE	IS	LI	LT	LU	LV	MD	MK	MT	ME	NO	PL	PT	RO	RU	RS	SK	SI	TR
9.9GHz*	AL	AT	BE	BA	BY	BG	CH	CY	CZ	DK	EE	FR	FI			GR	HU	NL	HR	IT	IE	IS	LI	LT	LU	LV	MD	MK	MT	ME	NO	PL	PT	RO	RU	RS	SI	TR
10.525GHz*	AL	AD	BE	BA	BY	BG	CH	CY		DK	ES					GR	HU	NL	HR	IT	IE	IS	LI	LT	LU	LV	MD	MK	MT	ME	NO	PL	PT	RO	SE	RS	SI	UA

* Center frequency indicated on the data label inside the product

TWINTeC BUS - TWINTeC MASK BUS

21ISTR11498













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	<input checked="" type="checkbox"/>
	Tamper	<input checked="" type="checkbox"/>
	Antimasking	<input checked="" type="checkbox"/>
	Failure	<input checked="" type="checkbox"/>
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-IPK02
	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		

The Tecnoalarm product range includes:

Conventional dual technology detectors for indoor use

TWINTeC						
Certified to 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						
Certified to 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						