

DUALRED BUS

Dual passive infrared detector
for indoor use



Tecnoalarm
Hi-Tech Security Systems

DUALRED BUS

Passive infrared for indoor use

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 a vibration 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.

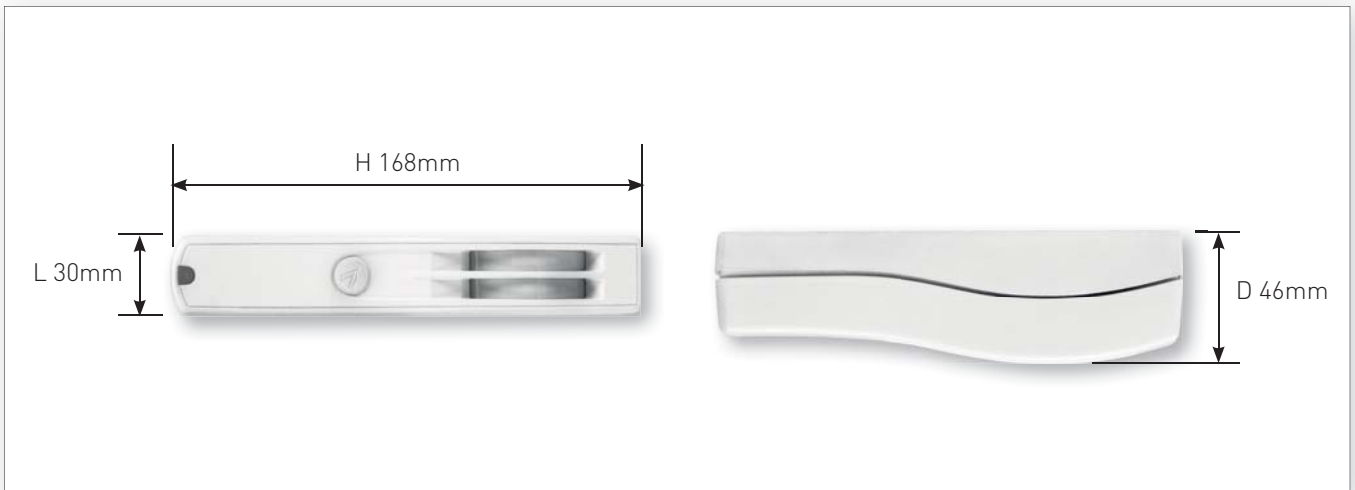
If the magnetic contact is opened during the arming phase, it is automatically excluded.

In this case, if the combined functioning has been set with the AND detection logic, the detector automatically adopts the OR logic.

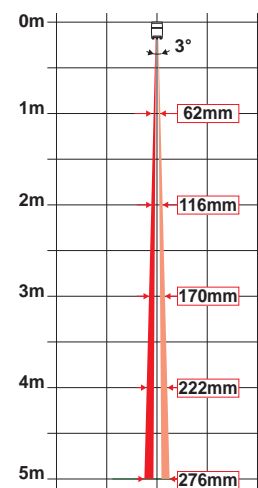
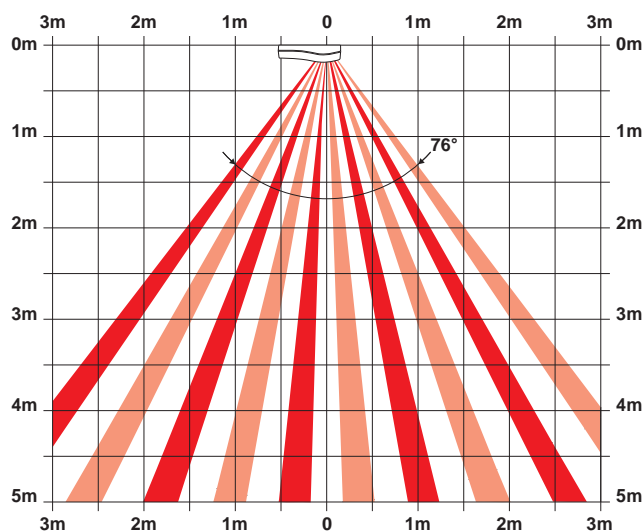
The detector can be used indoors or in sheltered outdoor areas, not directly exposed to the weather conditions.

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.



Coverage diagrams



Performance level

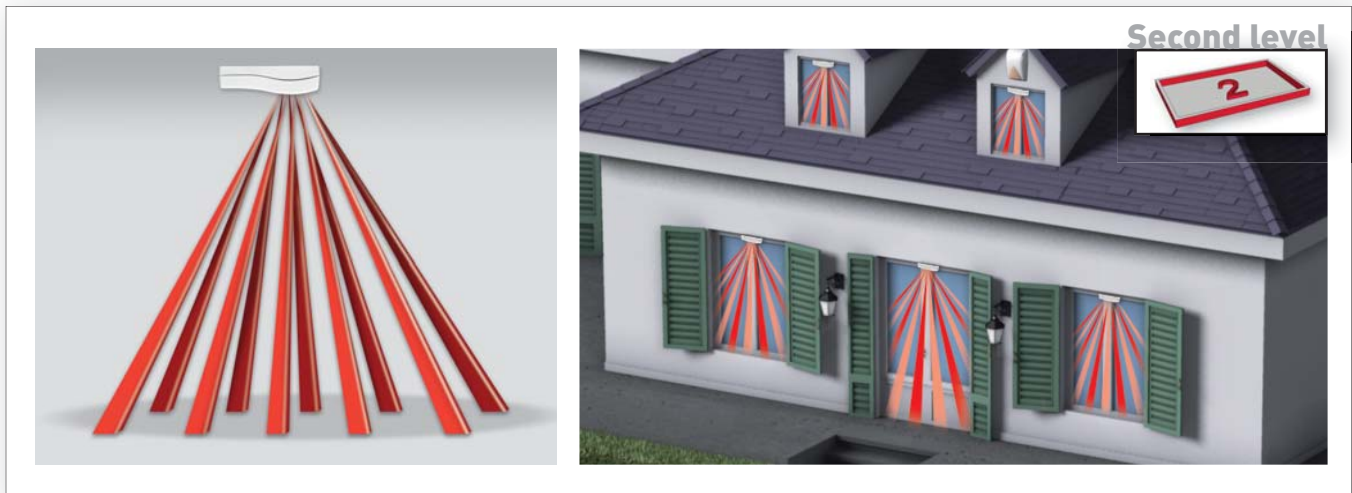
During the drafting of the project of a burglar alarm system, it is necessary to thoroughly analyze the risks such as the location of the installation, the environmental risk, the possible interferences, the values to be protected and the security requirements of the customer.

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)



	<p>DUALRED BUS</p>								
	<p>Compatible systems: TP8-28 - TP8-28 GSM - TP10-42 - TP8-88 - TP20-440</p>								
	<p>Item no. F102DUALREDBUS White color Item no. F102DUALREDBUSM Brown color</p>								

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211STR10880






DUALRED BUS - Technical and functional specifications

Physical/logical unit IR	IR elements	2
	Infrared beams	10
	Levels (infrared beams)	2
	Coverage	76° x 3°
	Max. range	5m
	Sensitivity	Programmable (2 settings)
Physical/logical unit contact	Internal magnetic contact	Reed ampulla
	Input	Magnetic contact, rope contact or vibration 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
	Stand-by consumption	20mA @ 12V DC
	Max. consumption	25mA @ 12V DC
Connection	RS485	Sensor Bus
Physical specifications	Environmental class	II
	Protection class	IP34-IPK02
	Casing	ASA
	Dimensions (L x H x D)	168 x 30 x 46mm
	Weight	80g
	Operating temperature	-20°C...+55°C

The Tecnoalarm product range includes:

Conventional dual passive infrared detector for indoor use

DUALRED						
	Item no. F102DUALRED White color					
	Item no. F102DUALREDM Brown color					

Wireless dual passive infrared detector for indoor use

DRED500 BWL								
	Compatible protocols: ASYNC@WL - SYNC@BWL							
	Item no. F102DRED500BWL White color							
Item no. F102DRED500BWLM Brown color								