

GLOBAL SPACE BUS



GENERAL FEATURES

The GLOBAL SPACE BUS is a dual technology detector for outdoor mounting with a multi-point technology: triple infrared and microwave.

The detector emits 43 infrared beams distributed on 5 levels, combined with the microwave beam.

The AND detection logic is programmable. 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.

INSTALLATION

The detector can be installed indoors and outdoors, even not protected, in vertical position on a solid surface at 2.30m height (to guarantee best coverage of the protected area).

The optional corner mounting bracket permits a 22.5° or 45° orientation compared to the mounting surface.

It is recommended to use the rain cover, if the detector is installed in areas that are particularly exposed to disturbances and weather conditions.

RDV®

The detection logic can be combined with the RDV® function. If the item **RDV modulation in alarm** is programmed, the microwave sensor is activated if at least one infrared element detects an alarm.

ANTIMASKING CONTROL

The detector is equipped with an antimasking control with programmable time and sensitivity.

SELF TEST

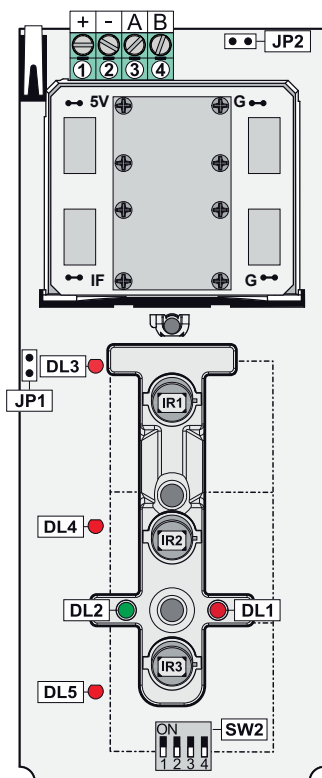
The detector is equipped with a self test function of the detection units. The test has a duration of a few seconds, if the result is negative, the detector signals failure to the control panel.

TEMPERATURE COMPENSATION

The temperature compensation function dynamically adapts the sensitivity of the three infrared elements to the ambient temperature. The function has the aim to maintain the detection efficiency in case of critical ambient temperatures.



The electronic board provides two jumpers for the exclusion of the antidetachment tamper and the termination of the serial bus.



+	-	A	B
			
1	2	3	4

1	+	Positive power supply voltage	+13.8V DC
2	-	Negative power supply voltage	-
3	A	Channel A serial bus	Serial
4	B	Channel B serial bus	Serial

Jumper	Description		
JP1	Antidetachment tamper	Active	Excluded
JP2	End of serial bus	No	Yes

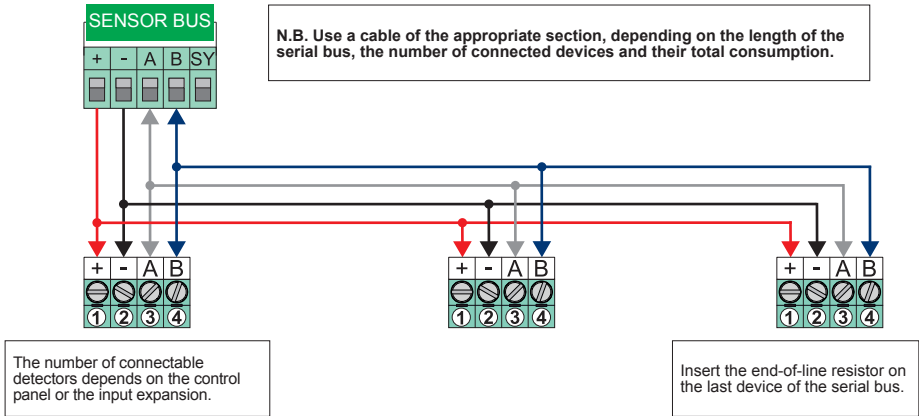
SW2.1	SW2.2	SW2.3	SW2.4	
OFF	OFF	OFF	OFF	Not valid
ON	OFF	OFF	OFF	Address 1
OFF	ON	OFF	OFF	Address 2
ON	ON	OFF	OFF	Address 3
OFF	OFF	ON	OFF	Address 4
ON	OFF	ON	OFF	Address 5
OFF	ON	ON	OFF	Address 6
ON	ON	ON	OFF	Address 7
OFF	OFF	OFF	ON	Address 8

LED	Color	Alarm signaling	
DL1	Red	2s on	Alarm IR section
DL2	Green	2s on	Alarm MW section
DL3	Red	Blinking quickly	Interruption beam IR1
DL4	Red	Blinking quickly	Interruption beam IR2
DL5	Red	Blinking quickly	Interruption beam IR3
DL1 + DL2	Red Green	2s on	Validated alarm

LED	Color	Masking and failure signaling		
DL1	Red	Blinking slowly	500ms on 500ms off	Masking
		On		Validated antimasking alarm
DL3	Red	Blinking quickly	100ms on 100ms off	Failure IR1
DL4	Red	Blinking quickly	100ms on 100ms off	Failure IR2
DL5	Red	Blinking quickly	100ms on 100ms off	Failure IR3

CONNECTION

The detector must be connected via serial line Sensor Bus. The address is programmed using the dip-switch SW2. The mcrowave emission is synchronized automatically through the address.



DETECTION LOGIC

The detection logic can be selected from the six available. It is based on the AND principle, i.e. the interruption of one or two infrared beams associated to the microwave. The microwave can be excluded so that the logic AND single beam is transformed into the OR logic. The detection logic can also be combined with the RDV®

function. In this case, the detection of an alarm by one IR element activates the microwave.

Mode 1	Mode 2	Mode 3	Mode 4	Mode 5	Mode 6
AND adjacent beams	AND single beam/OR	AND two beams with priority	AND two beams	AND upper beams	AND lower beams
2 adjacents PIR	1 PIR	PIR1 prior-ranking	2 PIR	Upper PIR	Lower PIR
IR1 + IR2 + MW	IR1 + MW	IR1 + IR2 + MW	IR1 + IR2 + MW	IR1 + IR2 + MW	IR2 + IR3 + MW
IR2 + IR3 + MW	IR2 + MW	IR1 + IR3 + MW	IR1 + IR3 + MW		
	IR3 + MW		IR2 + IR3 + MW		
The microwave can be excluded.					

RDV® function	
Programming	Functioning
Alarm as contact	RDV® function excluded
RDV modulation in alarm	The detection of an alarm by one IR element activates the microwave.

COMPATIBILITY

Firmware - software compatibility

TP16-256	rel. 7.9	TP8-28 GSM	rel. 1.5.14	SPEED 4 PLUS	rel. 2.1
TP8-96	rel. 2.3.01	TP10-42		SPEED 8 PLUS	
TP16-512	rel. 2.3.01	TP8-88		SPEED ALM8 PLUS	
TP8-28	rel. 1.5.14	TP20-440			

Tecnoalarm software ver. 5.0

COVERAGE DIAGRAMS

