

Description

This new series of dual detectors is based on the proven detection principles of the EIM detector, consisting of a logical AND connection between infrared technology and electromagnetic fields. The detectors EIM/B and EIM/DB are fitted with a walk test LED while the EIM/B also has a sealed optical system.

Technical Data

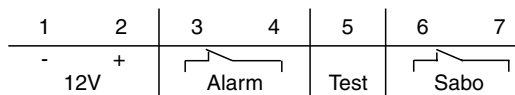
Power supply	9 ... 16 VDC
Power consumption (idle)	20 mA at 12 VDC
Alarm output	normally closed contact max. 50 mA / 24 V with 10 ohms in series
Tamper output	normally closed contact max. 50 mA / 24 V
Environmental class	II in accordance with VdS
Temperature range	-10°C to 55°C
Microwave power/frequency	max. 2 mW / 2.45 GHz
Type of protection	according to EN 60529 = IP 3X
Dimensions	108 x 32 mm (EIM/DB)
VdS approval	Class B - no. G 197562 (EIM/DB)
BZT approval number	G 128936 H

Installation

Unscrew the housing and remove the cover. The base of the housing has openings for the installation screws. Once the base has been secured at the required mounting height, insert the cable and secure it with a cable binder for strain relief. Attach the wires to the connection block.

13

Terminal assignment



13

-L 102/S	4	3	1	2	-	7	8
-L 208	V-	V+	Zone	Zone	22 ^④	C	9
-L 840/MG8	-	+	Zone ^③	Zone ^③ walktest		Zone ^②	Zone ^②
-L 840/MG4	2	1	Zone	Zone	13	Zone ^②	Zone ^②
-MT/S 4.12.1	11	12	Zone	Zone	10	Zone ^②	Zone ^②

② Zone = „Sabotage“
 ③ Zone = „Zone can be disconnected for internal activation (Zone 1-3)“
 ④ connect V+ over relay „walktest“ (24) and relay „external set“ (21)

Checking the detector function

During connection to the power supply, the voltage at terminals 1 and 2 must lie between 9.5 and 16 VDC. If the LED flickers, the voltage is too low.

Walk test

The walk test is a prerequisite for the correct commissioning of the detector. The range for PIR and electromagnetic field can differ depending on the environmental conditions.

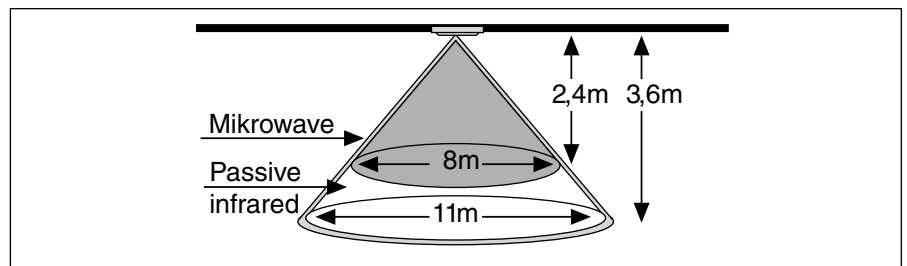
Setting the PIR effective range for the EIM/DB

The effective range can be adapted by modifying the mounting height. The effective ranges in the adjacent diagram should be noted.

Setting the effective range of the electromagnetic field for the EIM/DB

The effective range of the electromagnetic field for EIM/B can be extended from 8 m (default setting) to 11 m by removing the plug-in jumper "RANGE". Place the plug-in jumper on one of the two pins.

Effective range



LED control

- (1) The "LED" plug-in jumper activates the walk test LED.
- (2) If the walk test LED function is not required during normal operation, it can be disconnected by removing the "LED" plug-in jumper.
- (3) If the intrusion alarm panel has a walk test drive circuit, this connection must be linked with the test input of the detector. The wiring diagrams on the previous page should be noted.
- (4) LED control via the intrusion alarm panel only functions correctly if the LED plug-in jumper has been removed and placed on one of the pins.

Final test

Close the housing cover and test the tamper switch if it is connected. Pass through the detection area of the device and check whether a corresponding signal appears at the alarm panel. In VdS installations, a VdS seal should be attached above the cover screw at the front.

Description

1. Front housing cover
2. Fixing screws
3. Lens
4. (Grouping) marks for cover
5. Basic housing
6. Terminal strip
7. Tamper spring
8. Walk test LED
9. Prealigned cable outlets
10. Jumper for LED activation
11. Jumper for microwave range
12. Housing terminals
13. Fixing points
14. Printed-circuit board
15. Lateral cable glands
16. Grouping marks for cover
17. Terminals for resistors

