

MM 1007 Ex (XDH10TT-AM/Ex) MMG Intrinsically Safe PIR+MW Detector

INTRINSICALLY
SAFE
SECURITY SYSTEMS



DESCRIPTION:

The XD10TTAM/Ex Detector (MM 1007 Ex) is a combined detector consisting of three detection technologies. It uses two PIR sensors and one microwave detector. The range of the microwave detector is adjustable from 0 m to 15 m, while the PIR range is fixed at 10 m. The detection range can be adjusted by changing the microwave detection range.

In factory mode, the detector is configured for installation at a height of 2,4 m. It provides volumetric area coverage. The factory settings include the elimination of false alarms caused by animals up to 10 kg.

The XD10TTAM lenses are manufactured to high standards and are coated with a durable ultraviolet filter, ensuring protection against UV radiation.

The detector is adapted for use in areas with the risk of explosion of gases and vapors. Power supply must be provided from an intrinsically safe source, and the output contacts for alarm and tamper must be separated by a barrier – an intrinsically safe relay.

For a larger number of detectors, it is possible to use a single more powerful power supply with a maximum safe output voltage of $U_i = 16,8 \text{ V}$.



PRODUCT FEATURES:

- Ex II 3G Ex nA IIB T4 Gc;
- Ex V3;
- dual PIR+MW detector;
- range: 10 m/90°;
- three microwave frequencies – 9,87 / 9,90 / 9,91 GHz;
- high resistance to solar UV radiation;
- white light filter > 6500 Lux;
- elimination of moving vegetation in the wind and protection against insects;
- PET immunity – eliminates false alarms caused by animals up to 10 kg;
- ABS plastic casing.

Recommended power supplies:

- 1 detector MM 2012 .. (15,8 V, 16,8 V);
- 4 detectors MM 0315 .. (MM 0312..);
- 20 detectors MM 3015 - 800 ..

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TECHNICAL PARAMETERS:

Sensitivity Settings:	Auto, High, or Low
Protection:	Alarm/Tamper/Mask/Fault
Tamper Protection:	Opening and removal detection
Maximum Range:	PIR: 10 m/90°, MW: 15 m
Volumetric characteristic:	Yes
Coverage angle:	90°
Ceiling mounting:	Yes
Optics:	Sealed optics
Detection Method:	2 x low-noise pyro elements (PIR), 1 x microwave element (MW)
Wall mounting:	Bracket not included in the delivery
Optimal mounting height:	1,8 - 2,4 m
Certified mounting height:	2,4 m
Operating temperature range:	-30°C to +50°C
Dimensions (H x W x D):	118 x 77 x 84 mm
Weight:	300 g (without bracket)
Operating voltage:	9 - 16 V DC (typical: 13,8 V DC)
Current consumption:	24 mA/13.8 V (min.)
Contact resistance:	< 10 Ω
Relay outputs:	50 mA 60 V DC, 42 V AC (RMS)
Tamper contact parameters:	50 mA/12 V
Balancing resistors in Ex version:	No
Degree of protection:	IP 55
EN Certifications:	EN 50131-2-2:2008, EN 50130-4:2011, EN 50130-5:2011, PD 6662:2010 Ex: EN 60079-0:2018, EN 60079-11:2012
Environmental Class Ex:	IIG, IIID, V
Security Level:	Grade 3 EN 50131
Classification:	II 3G Ex nA IIB T4 Gc (gases and vapors) V3 (explosives)

* The package includes two built-in XD-LEN5 lenses and PIR masks (2x curtain and 2x adjustable).



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