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IRM270MD

Matchtec®

PIR/MW motion detector

an ingenious combination of two technologies

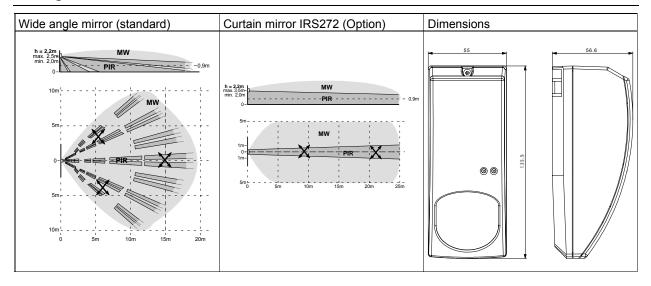
- Digital MATCHTEC® signal processing
- 18 m wide-angle detection with look down zone or 25 m continuous curtain (option)
- MW part is disengageable during unset mode
- Outstandig white light filter thanks to black triplex mirror optics
- Separate application settings for PIR and MW

Always the right choice. The detector's design makes it easy to incorporate into any surroundings. Because two detection systems are used – microwave and passive infrared as well as the MATCHTEC® signal processing – this detector is suitable for demanding applications. It is extremely simple to adapt to the room size.

The IRM270MD is intelligent. Reliable recognition of intruders is ensured thanks to sophisticated digital MATCHTEC® signal processing and interconnection between the microwave and passive-infrared sections. To achieve this, both subsystems are subject to a multi-criteria analysis, and any unwanted interference is recognized and suppressed by the individual subsystems.

This detector can't be fooled. A special protection concept also makes the detector insensitive to environmental problems such as draughts, temperature fluctuations, electromagnetic interference, ingress by insects or external light.

Coverage areas and dimensions



Technical data

Supply voltage – Max. ripple (0 100 Hz) – Voltage monitoring	8 16 VDC (12 V nom.) 2.0 VPP Alarm at 7.2 ± 0.5 VDC	
Current consumption (at 8 16 VDC) — Quiescent / Alarm	7.5 mA / 13 mA	
Microwave (MW)	9.35 GHz	
Alarm output - Semiconductor relay (opens when alarm occurs) - Alarm holding time Tamper contact	30 VDC / 100 mA ohmic load/ Ri < 35 Ω 2 3 s 30 VDC / 50 mA ohmic load	
Control inputs	LOW ≤ 1.5 V / HIGH ≥ 3.5 V	
Walking speeds - Wide angle mirror / curtain mirror IRS272 Signal evaluation	0.2 4.0 m/s / 0.2 4.0 m/s MATCHTEC®	
Environmental conditions - Operating temperature - Storage temperature - Air humidity (EN 60721) - EMC up to 2 GHz - Housing protection class (EN 60529, EN 50102)	- 20 + 55°C - 20 + 60°C < 95% rH, non-condensing 30 V/m IP41 / IK02	

Ordering data

Type	Art. No.	Designation	Weight
IRM270MD	A5Q00002671	PIR/MW Motion Detector	0.120 kg
IRS272	571733	Curtain mirror (4 pcs)	0.055 kg
IRUM20	562247	Mounting bracket, wall	0.100 kg
IRUM30	562250	Mounting bracket, ceiling	0.160 kg
	503251	Adhesive tamper seal	0.007 kg

Siemens Switzerland Ltd. International Headquarters Fire Safety & Security Products Gubelstrasse 22 CH – 6301 Zug Tel. +41 41 724 24 24 Fax +41 41 724 35 22

www.sbt.siemens.com

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