



Easytec™

IRM80

PIR/MW motion detector

with pet immunity

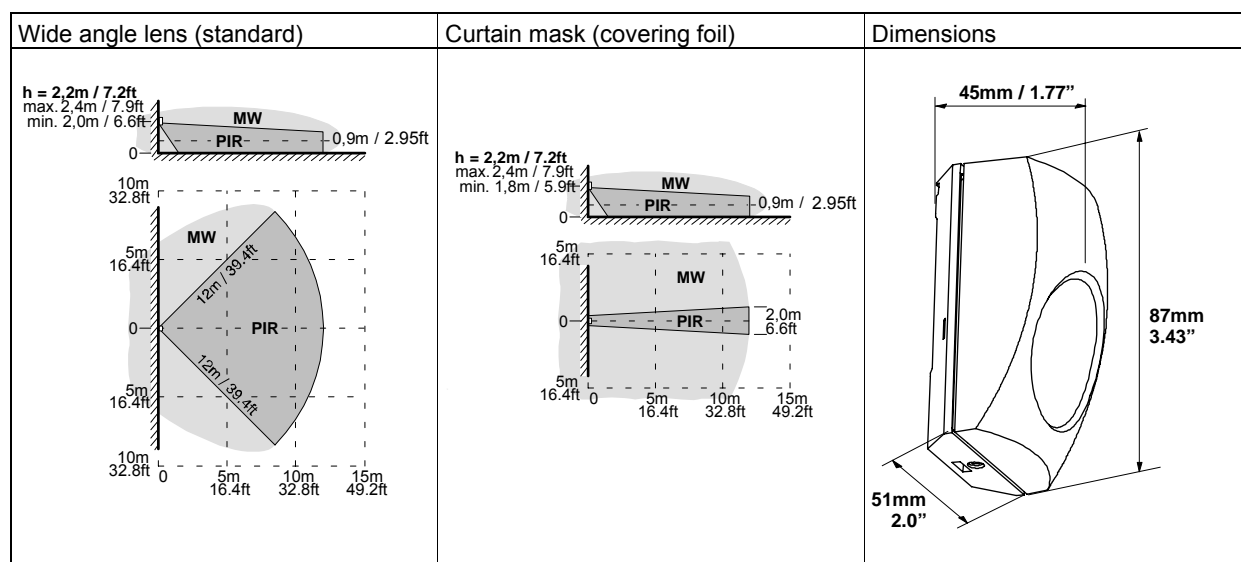
- Dual technology PIR/MW with digital signal processing
- 12 m wide-angle detection
- Pet immunity up to 12 kg
- Choice of two application settings
- Temperature compensation

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 sophisticated signal processing – this detector is ideal for residential applications. It is extremely simple to adapt to the room size.

The IRM80 is intelligent. Reliable recognition of intruders is ensured thanks to sophisticated digital 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	8 ... 16 VDC (12 V nom.)
– Max. ripple (0 ... 100 mHz)	2.0 VPP
– Voltage monitoring	Alarm at < 6 ... 8 VDC
Current consumption (at 8 ... 16 VDC)	
– Quiescent / Alarm	4.5 mA / 18 mA
Microwave (MW)	2.45 GHz / max. 10 mW EIRP
Alarm output	
– Relay contact (opens when alarm occurs)	30 V- / 100 mA / Ri 45 Ω ohmic load
– Alarm holding time	2 ... 3 s
Tamper contact	30 V- / 50 mA ohmic load
Walking speeds	
– Wide angle mirror / curtain mirror IRS122	0.2 ... 3.0 m/s / 0.2 ... 4.0 m/s
Environmental conditions	
– Operating temperature	- 20 ... + 55°C
– Storage temperature	- 20 ... + 60°C
– Air humidity (EN 60721)	< 95% rH, non-condensing
– EMC up to 2 GHz	> 10 V/m
– Housing protection class (EN 60529, EN 50102)	IP41 / IK02

Ordering data

Type	Art. No.	Designation	Weight
IRM80	571678	PIR/MW Motion Detector	0.100 kg
IRUM2	519876	Swivel wall mount bracket	0.045 kg
IRUM3	519889	Swivel ceiling mount bracket	0.070 kg

Siemens Schweiz AG
Alte Landstr. 411
CH-8708 Männedorf
Tel. +41 1 - 922 6111
Fax +41 1 - 922 6450
www.sbt.siemens.com

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