



Easytec™

## IRM80 PIR/MW motion detector

with pet immunity

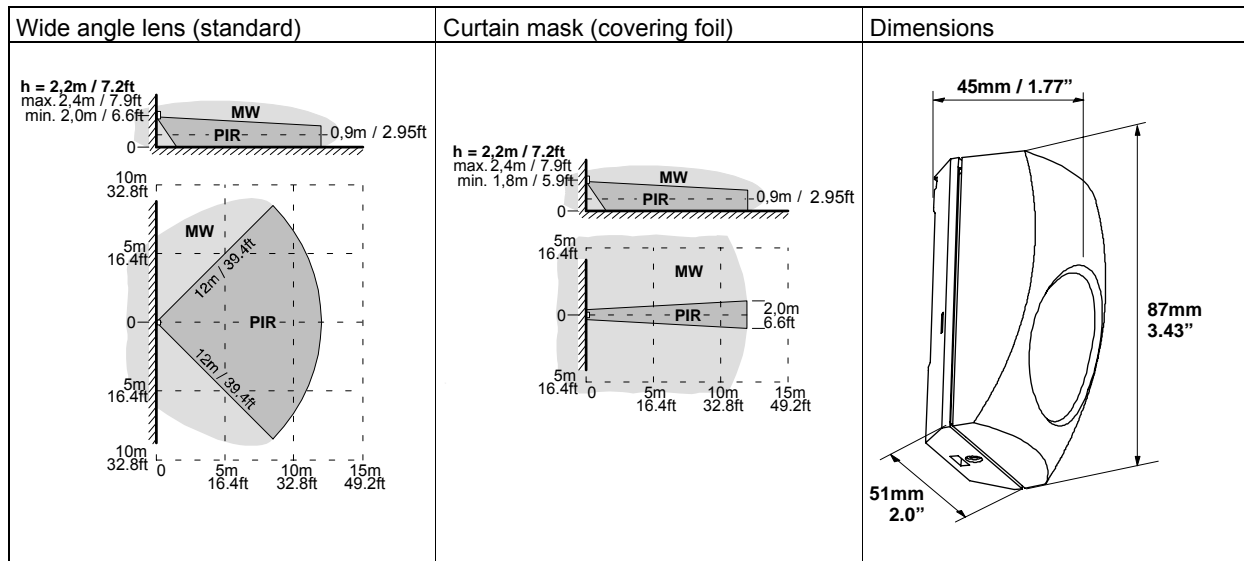
- Dual technology PIR/MW with digital signal processing
- 12 m wide-angle detection
- Pet immunity up to 12 kg
- Choice of two application settings
- Temperature compensation

**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

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