



## IRM120C

Matchtec™

### PIR/MW motion detector

with pet immunity

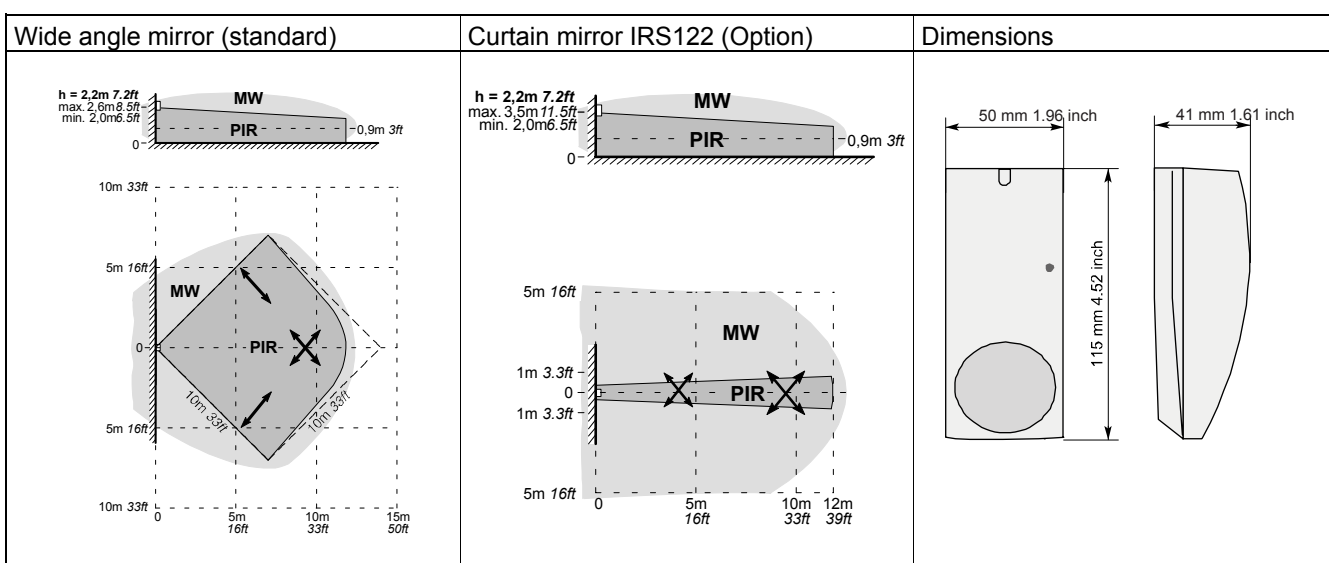
- Digital MATCHTEC™ signal processing
- 12 m wide-angle detection with look down zone or 12 m continuous curtain (option)
- Pet immunity up to 20 kg
- Outstanding white light filter thanks to black triplex mirror optics
- Choice of four application settings

**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 IRM120C 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	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	7.5 mA / 20 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
Control inputs	LOW ≤ 1.5 V / HIGH ≥ 3.5 V
Walking speeds	
– Wide angle mirror / curtain mirror IRS122	0.2 ... 3.0 m/s / 0.2 ... 4.0 m/s
Signal evaluation	MATCHTEC®
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	30 V/m
– Housing protection class (EN 60529, EN 50102)	IP41 / IK02

## Ordering data

Type	Art. No.	Designation	Weight
IRM120C	A5Q00004068	PIR/MW Motion Detector	0.120 kg
IRS122	562302	Curtain mirror (4 pcs)	0.055 kg
IRMC104	562315	Pet-Clip (4 pcs)	0.040 kg
IRUM20	562247	Mounting bracket, wall	0.100 kg
IRUM30	562250	Mounting bracket, ceiling	0.160 kg
	503251	Adhesive tamper seal	0.007 kg

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