



Matchtec®

IRM120MD

PIR/MW motion detector

an ingenious combination of two technologies

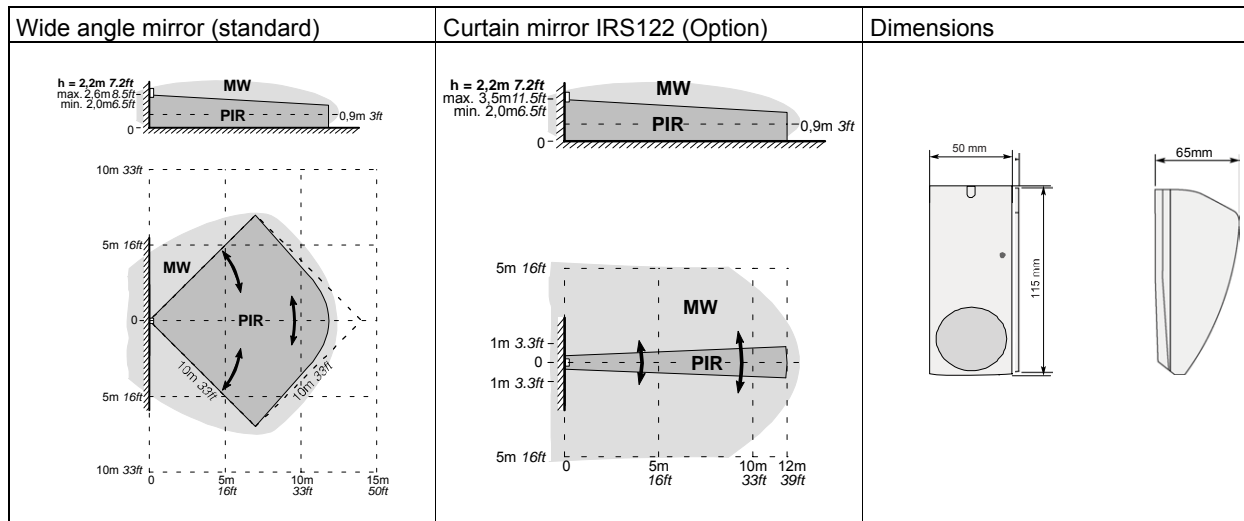
- **Digital MATCHTEC® signal processing**
- **12 m wide-angle detection with look down zone or 12 m continuous curtain (option)**
- **Pet immunity up to 20 kg**
- **Outstanding white light filter thanks to black triplex mirror optics**
- **Choice of four application settings**

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 IRM120MD 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 Hz)	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	
– Semiconductor relay (opens at alarm)	30 VDC / 100 mA ohmic load/ Ri 45 Ω
– Alarm holding time	2 ... 3 s
Tamper contact	30 VDC / 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
IRM120MD	A5Q00001997	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

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

© 2005 Copyright by
Building Technologies Group
Data and design subject to change without notice. Supply subject to
availability.