



## LM100C

Matchtec®

## PIR/MW Motion detector

an ingenious combination of two Siemens technologies

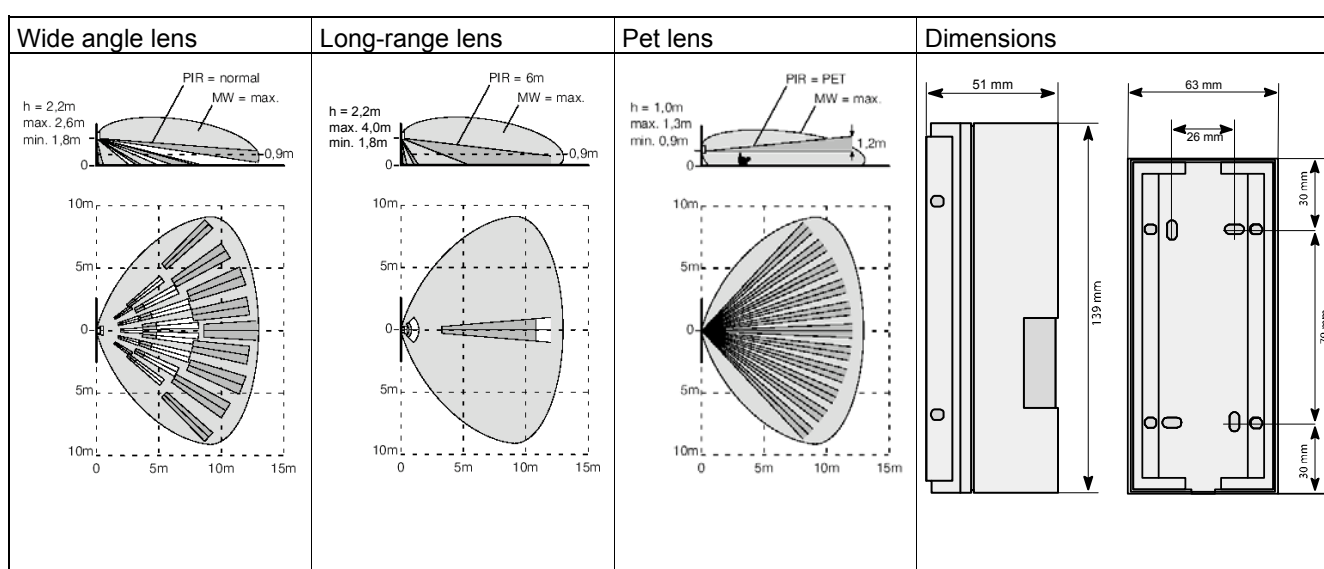
- **Wide angle and long range selection with look down zone – pet versions**
- **Digital MATCHTEC® signal processing system**
- **Easily adapted to suit the room size**
- **Special protection against insects and electromagnetic interference**

**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, with MATCHTEC® signal processing – this detector is suitable for demanding applications. It is extremely simple to adapt to the room size. And the detector is fitted with a look down detection zone.

**The LM100 has brains.** 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 subjected to a multicriteria analysis, and any unwanted interference is recognized and suppressed in 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.

## Coverages areas and dimensions



## Technical data

Supply voltage	8 ... 16 VDC (12 V nom.)
– Max. ripple (0 ... 100 mHz)	2 VSS
– Voltage monitoring	Alarm at < 5.5 ... 7.9 VDC
Current consumption (at 12 VDC)	
– Quiescent / Alarm	15 mA / 30 mA
Alarm outputs	
– Relay contact (opens when alarm occurs)	30 VDC / 100 mA / Ri 32 Ω
– Alarm holding time	2 ... 3.5 s
Tamper contact	30 VDC / 100 mA
Control inputs (walktest)	LOW ≤ 1.5 VDC / HIGH ≥ 3.5 VDC
Signal evaluation	MATCHTEC®
Environmental conditions	
– Operating temperature	- 20 ... + 55°C
– Storage temperature	- 20 ... + 60°C
– Air humidity (EN 60721)	< 95% rH, non-condensing
– Type of protection for housing (EN 60529, EN 50102)	IP41 / IK02
– Electromagnetic compatibility (EMC)	better than EN 50130-4
– Insensitive to HF interference fields	> 30 V/m

## Ordering data

Type	Art. No.	Designation	Weight
LM100C	519588	PIR/MW detector 10,525 GHz	0.160 kg
LM100CUK	519766	PIR/MW detector 10,687 GHz	0.160 kg
LM100CFR	539351	PIR/MW detector 9,9 GHz	0.160 kg
LM100CES	571319	PIR/MW detector 10,525 GHz	0.160 kg
LLRL12	502922	Long-range lenses (3 pcs.)	0.055 kg
LPAL12	502919	Pet lenses (3 pcs.)	0.040 kg
IRUM2	519876	Wall mounting bracket	0.100 kg
IRUM3	519889	Ceiling mounting bracket	0.160 kg
IRAK3	464853	Back tamper contact	0.160 kg
	503251	Adhesive tamper seal	0.007 kg

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