DATA SHEET

MD 180 BASIC black

Item number	GTIN
EM10055096	4015120055096



5 YEARS MANUFACTURER WARRANTY

Ø 20 m | 180° | ON/OFF | IP44 | 1 CH

Product description

- Motion detector with **180° field of detection** for convenient light switching
- Sensing and range adjustment due to revolving and tilting spherical head technology

Offers special product features like:

- Zero-cross switching

Technical data

GENERAL	
Device category	Outdoor motion detector
Product information	Please note the Explanation of circuit breaker in the download area of the product! Intense sunlight over a longer period of time can change the color tone.
User interface	Adjusting controller
Remote controllable	-
Conformity	CE, EAC, RoHS, WEEE
Warranty	5 years

ATTACHMENT	
Installation type	Surface mounting
Installation position	Wall
Type of connection	Push terminal
Connectable wire cross section	1.5 - 1.5 mm^2

HOUSING	
Dimensions	Length 80 mm x Width 55 mm x Height/Depth 66 mm
Weight	100 g
Material	UV-stabilised polycarbonate
Protection type	IP44
Permissible ambient temperature	-20 °C...+40 °C
Relative humidity	5 - 95 %, non-condensing
Colour	black, similar to RAL 9005

ELECTRICAL VERSION	
Control system	ON/OFF
Protection class	II
Nominal voltage	230 V ~ / 50 Hz
In-rush current	40 A / 20 ms
Power consumption	0.5 W
Stand-by consumption	< 0.5 W

SENSORS	
Detection angle	180° horizontally and vertically rotatable +/- 30°
Detection range diagonally	Ø 20 m
Detection range head-on	Ø 10 m
Field of detection	up to 157 m^2
Range adjustment	Mechanical
Recommended installation height	2.5 m
Max. mounting height	3 m
Light measurement	mixed light
Level of brightness	5 - 1000 lx

CHANNELS (LIGHTING / HVAC)	
Number of light channels	1
Push button input HVAC	-
Number of parallel switchable detectors	6
Slave input	-
Constant light control	-
Channel	**C1** Lighting
Function	Switching
Switching capacity	230 V/50 Hz 800 W/5 A (cos phi = 1) 500 VA/2,5 A (cos phi = 0,5) 250 W LED
Switch contact	make contact / non-floating
Push button input	-
Impulse mode	-

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Switch-off delay time	10 s...15 min (adjustable in steps)

Factory settings

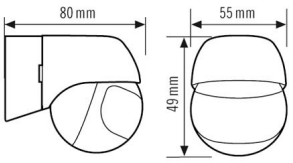
GENERAL	
Sensitivity	100 %

CHANNELS (LIGHTING / HVAC)	
Channel	**C1** Lighting
Operating mode	fully automatic

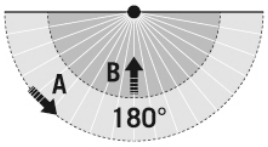
Accessories

Product designation	Item number	Product description	GTIN
Accessories			
SRM-230V relay module	EP10426346		4015120426346

Dimension drawing



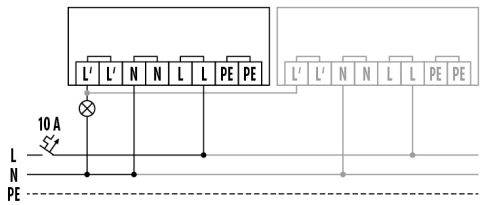
Field of detections



Detection range

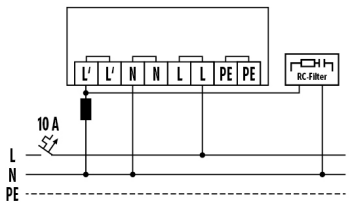
Diagonally (A)	Ø 20 m
Frontal (B)	Ø 10 m

Circuit diagram



Standard operation with optional parallel wiring of max. six motion detectors.

Circuit diagram



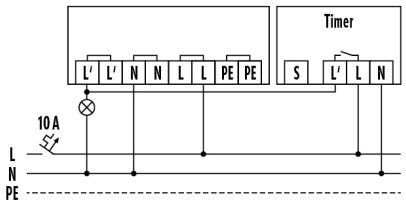
When connecting inductors (e.g. relays, contactors, ballasts) the use of a filter (A) may be necessary.

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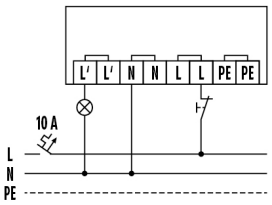
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Circuit diagram



Standard operation with automatic stairwell light.

Circuit diagram



Standard operation with the additional possibility of switching on by hand.

Detailed product description

- Motion detector with **180° field of detection** for convenient light switching
- Double diaphragm line entrance
- Connection base with plug-in terminal and rear cable entry
- Sensing and range adjustment due to revolving and tilting spherical head technology
- For wall mounting