

## MD 180 BASIC black

### Item number

EM10055096

### GTIN

4015120055096



### Technical data

| GENERAL                         |   |
|---------------------------------|---|
| Device category                 | Outdoor motion detector   |
| Product information             | Please note the Explanation of circuit breaker in the download area of the product!<br>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 <sup>2</sup>   |
| 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   |

### 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

|                      |              |
|----------------------|--------------|
| 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 <sup>2</sup>                           |
| 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                                 | <b>C1</b> Lighting  |
| Function                                | Switching   |
| Switching capacity                      | 230 V/50 Hz<br>800 W/5 A (cos phi = 1)<br>500 VA/2,5 A (cos phi = 0,5)<br>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 %

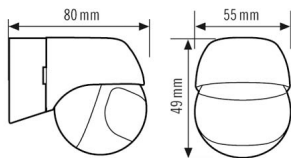
#### CHANNELS (LIGHTING / HVAC)

Channel      C1 Lighting  
 Operating mode      fully automatic

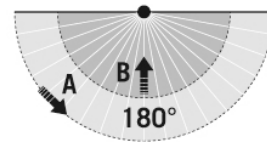
### Accessories

| Product designation   | Item number | Product description | GTIN          |
|-----------------------|-------------|---------------------|---------------|
| <b>Accessories</b>    |             |                     |               |
| SRM-230V relay module | EP10426346  |                     | 4015120426346 |

### Dimension drawing



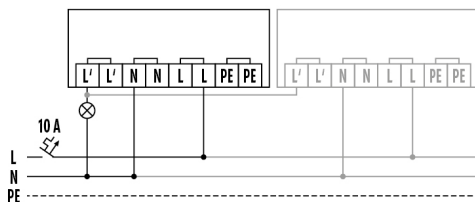
### Field of detections



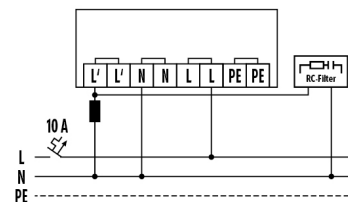
### Detection range

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

### Circuit diagram



### Circuit diagram



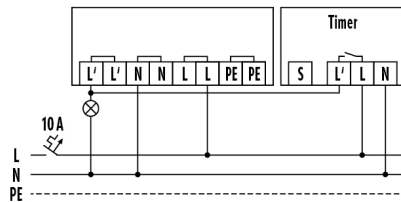
Standard operation with optional parallel wiring of max. six motion detectors.

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

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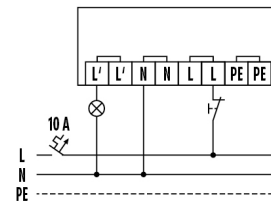
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### Circuit diagram



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