Merkur 2
Microwave motion detector for automatic doors

Intelligent, precise, versatile

- Optimal flow of persons: The homogenous radar field with SMD+ function detects the smallest movements
- Versatile usable: Practical adjustments for any type of doors, inside and outside
- Short commissioning time: Pre-programmed comfort settings and electronically adjustable dual field planar module
- Energy-saving: Avoids involuntary openings of the door by means of direction recognition and blanking-out of cross traffic

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Merkur 2

Microwave motion detector for automatic doors

The all-rounder
Thanks to its extremely high versatility, Merkur 2 leads the way and can be used on virtually any type of automatic door. With its totally reliable detection, Merkur 2 provides a smooth flow of people and also ensures savings on energy and costs! The intelligent sensor system has an optional direction recognition and thereby makes sure that the door only opens when people are approaching or leaving. The door closes again immediately afterwards.

Dual field planar module
The second generation of Merkur is available with a radar field that is more symmetric and more sharply differentiated than before. Switching between wide or narrow field can be done by remote control or by push-buttons on the sensor. Thus, Merkur 2 is adjusted and ready to operate extremely quickly.

Your benefits

Versatile usable for every situation
- Pre-programmed comfort settings for a rapid commissioning
- The most reliable detection with a clearly differentiated radar field
- Energy-saving by direction recognition
- Avoidance of involuntary door openings by blanking-out of cross
- Electronically switching between a wide and a narrow field
- SMD+ as a new detection field for movements of < 5 cm/s

Field characteristics
- Electronic field geometry settings options for a wide and narrow field (via remote control or via buttons at the detector)
- Can even be used with wide passage dimensions and high-level lights
- Mounting height up to 4 m

Optional plug-in screw terminal or RJ12 socket
Remote control for rapid commissioning and full range of settings
Basic programming by using push-buttons on the sensor
Radar module that is horizontally and vertically tiltable
Further accessories

High-quality accessories make the innovative Merkur 2 so versatile that it can be used in the most widely differing applications.

Reliable in every application

Situation
Activation of sliding doors, pedestrians on the pavement

Solution
- Ensures an optimal flow of people with reliable activation
- Intelligent movement detection: only activated when people directly come towards the door. Ideal for access in passages/on pavements

Benefits
- No unnecessarily opening/prolonged opening time of the door thanks to direction recognition
- The depth of the field can be reduced to a minimum and still the sensor ensures an optimal flow of people
- Field size up to a width of 5.0 m
- No involuntary opening of the door due to blanking-out of cross traffic/people recognition

Situation
Activation of revolving doors

Solution
- With a special semicircular adapter, Merkur 2 can also be installed on revolving doors

Benefits
- Efficient blanking-out of cross traffic
- Small and precisely selectable detection field

Situation
Activation of swing doors

Solution
- The sensor for automatic doors even in the most confined spaces

Benefits
- Thanks to the blanking-out of cross traffic, the door leaf is not detected and so the door is not triggered
- Especially suitable for ceiling installation

Situation
Installation in elderly and disabled homes

Solution
- Merkur 2 with a specially pre-programmed comfort setting

Benefits
- Even the very slowest-moving persons (< 5 cm/s) and those in wheelchairs are safely detected with the new SMD+ field
- Almost stationary objects are recognised in the detection field. The door stays open until the person has safely passed through
## Technical specifications

### Mechanical specifications

<table>
<thead>
<tr>
<th>Material</th>
<th>Cover: PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>Base plate: ABS</td>
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<tr>
<td>Weight</td>
<td>150 g</td>
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</table>

### Electrical specifications

<table>
<thead>
<tr>
<th>Voltage</th>
<th>12–36 V DC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating current</td>
<td>12–28 V AC, 50 Hz</td>
</tr>
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</table>

### Types of connections

<table>
<thead>
<tr>
<th>Types of connections</th>
<th>Merkur 2, Merkur 2 ES, Merkur 2 ES.C</th>
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</thead>
<tbody>
<tr>
<td>Plug-in screw terminal</td>
<td>RJ12 plug</td>
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</table>

### Specific specifications for Merkur 2 and Merkur 2 ES

<table>
<thead>
<tr>
<th>Output</th>
<th>Potential-free changeover contact</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>48 V AC/DC</td>
</tr>
<tr>
<td>Max.</td>
<td>0.5 A AC / max. 1 A DC</td>
</tr>
<tr>
<td>Max.</td>
<td>60 VA / max. 30 W</td>
</tr>
</tbody>
</table>

### Environmental conditions

<table>
<thead>
<tr>
<th>Environmental conditions</th>
<th>Mounting height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of protection</td>
<td>IP54</td>
</tr>
<tr>
<td>Ultimate temperature</td>
<td>–20 °C up to +60 °C</td>
</tr>
<tr>
<td>Humidity</td>
<td>Max. 95% relative, non-condensing</td>
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### Standards

<table>
<thead>
<tr>
<th>Immissions</th>
<th>EN 61000-6-1</th>
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<tbody>
<tr>
<td>Emissions</td>
<td>EN 61000-6-2</td>
</tr>
<tr>
<td></td>
<td>EN 61000-6-3</td>
</tr>
<tr>
<td></td>
<td>EN 61000-6-4</td>
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</tbody>
</table>

### Additional products

**UniScan**
Infrared presence detector for automatic swing doors and revolving doors in accordance with EN 16005 and DIN 18850

**PrimeFamily A**
The complete solution for activating and protecting sliding doors in accordance with EN 16005 and DIN 18850

**CleanSwitch**
Contact-free switch for convenient activation of entrances with strict hygiene and design requirements

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**Order details**

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>219184</td>
<td>Merkur 2 Standard</td>
</tr>
<tr>
<td>219190</td>
<td>Merkur 2 ES</td>
</tr>
<tr>
<td>219193</td>
<td>Merkur 2 ES.C</td>
</tr>
<tr>
<td>292393</td>
<td>Bi-directional remote control RegioBeam 2</td>
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<tr>
<td>213459</td>
<td>Cover Merkur black</td>
</tr>
<tr>
<td>213462</td>
<td>Cover Merkur white</td>
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<tr>
<td>212840</td>
<td>MIS – ceiling installation kit</td>
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<tr>
<td>212837</td>
<td>MCAP – rain and snow cover</td>
</tr>
<tr>
<td>212527</td>
<td>MCL 1.0 – semicircular adapter for Merkur 2 TRL 687 black Door diameter 2.0–3.6 m 175 × 40 × 5.4 mm (W × H × T)</td>
</tr>
<tr>
<td>212528</td>
<td>MCL 2.0 – semicircular adapter for Merkur 2 TRL 687 black Door diameter 3.6–6.0 m 175 × 40 × 3.7 mm (W × H × T)</td>
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</table>

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