



sensing the future



**World premiere:
The radar innovation with the
electronically adjustable double
field module**

Merkur 2

Microwave motion detector
for automatic doors

Intelligent, precise, versatile

- **Optimal flow of persons:**
The only unique and homogenous radar field with SMD+ function detects the smallest movements
- **Versatile usable:**
Practical adjustments for any type of doors, inside and outside
- **Safe activation:**
Integral self-monitoring system for escape and emergency exit doors
- **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

Merkur 2

Microwave motion detector for automatic doors

The innovative 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. For escape and emergency exits, the Merkur 2 ES.SM version is fitted with a built-in self-monitoring device.

Hi-tech 'wonder' with 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 fully electronically 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

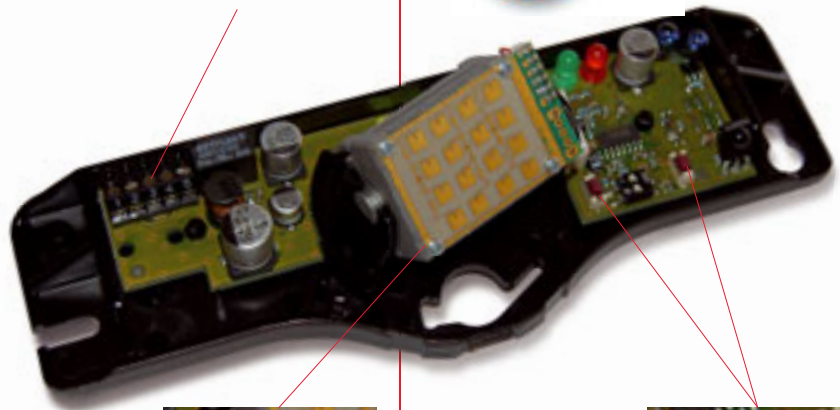
- Pre-programmed comfort settings for a rapid commissioning
- The most reliable detection with a clearly differentiated radar field
- Energy-saving by direction recognition
- Avoidance of involuntary door openings by blanking-out of cross
- Electronically switching between a wide and a narrow field
-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



Optional plug-in screw terminal or RJ12 socket



Remote control for rapid commissioning and full range of settings



Radar module that is horizontally and vertically tiltable



Basic programming by using push-buttons on the sensor

Further accessories

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



Reglobeam remote control

Using this, the sensor can be rapidly configured and parameters can be individually adjusted for the respective situation



MIS ceiling installation kit

Using the MIS ceiling installation kit, the sensor can be discretely and almost invisibly built-in to the ceiling



MCAP rain and snow cover

The MCAP cover for external use protects the sensor against rain and snow



Reliable in every application

Situation

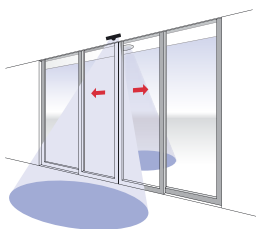
Activation of sliding doors

Solution

- Merkur 2 ensures an optimal flow of people with reliable activation of the door

Benefits

- No unnecessarily prolonged opening time of the door thanks to direction recognition
- No involuntary opening of the door due to blanking-out of cross traffic
- Versatile installation possible (wall and ceiling mounting)
- Enormous size of field up to a width of 5.0 m



Situation

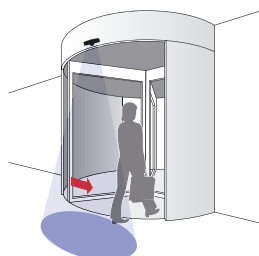
Activation of revolving doors

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

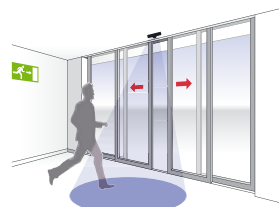
Installation on escape and emergency exits

Solution

- The version Merkur 2 ES.SM with a built-in self-monitoring device is specially designed for escape and emergency exits

Benefits

- Highest safety level in one unit
- Rapid detection of movements thanks to homogenous radar field
- Large detection field for more safety



Situation

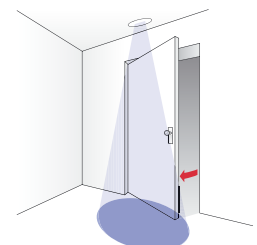
Activation of swing doors

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





MCL semicircular adapter

The MCL adapter with its concave back provides a flat surface to mount the sensor on revolving and curved doors



Situation

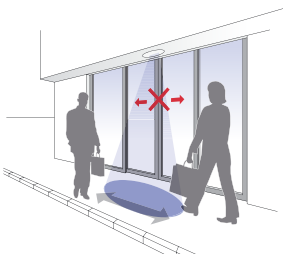
Pedestrians on the pavement

Solution

- The sensor with intelligent movement detection is only activated when people directly come towards the door. Ideal for access in passages and on pavements.

Benefits

- The depth of the field can be reduced to a minimum and still the sensor ensures an optimal flow of people
- People passing-by do not trigger any opening pulse



Situation

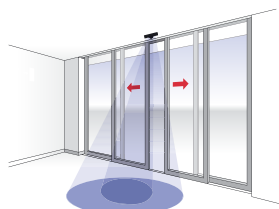
Installation in elderly and disabled homes

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



Order details

| Item no. | Description | |
|--|--|---|
| Merkur Standard | | |
| Merkur 2 | 219184 Without direction recognition Changeover contact Plug-in screw terminal |  |
| Merkur 2 C | 219187 Without direction recognition Changeover contact RJ12 socket | |
| Merkur 2 ES | 219190 With direction recognition Changeover contact Plug-in screw terminal | |
| Merkur 2 ES.C | 219193 With direction recognition Changeover contact RJ12 socket | |
| Merkur for escape and emergency exit doors self-monitoring and design tested as per DIN 18650 | | |
| Merkur 2 ES.SM.R.C | With direction recognition Relay output RJ12 socket |  |
| Merkur 2 ES.SM.F.C | With direction recognition Frequency output RJ12 socket | |
| Merkur 2 ES.SM.V.C | With direction recognition Voltage outlet RJ12 socket | |
| Merkur 2 ES.SM.V | With direction recognition Voltage outlet Plug-in screw terminal | |
| Accessories | | |
| F539.89420 | 212847 Bi-directional remote operation Reglobeam |  |
| K7631.016 | 213463 Cover Merkur white |  |
| K7631.019 | 213464 Cover Merkur silver |  |
| F539.89330 | 212840 MIS – ceiling installation kit |  |
| F539.89325 | 212837 MCAP – rain and snow cover |  |
| F531.114000 | 212527 MCL 1.0 – semicircular adapter | |
| F531.114002 | 212528 MCL 2.0 – semicircular adapter |  |

Additional products

ClearBeam

One-way photoelectric barrier for protection of the main closing edge



Jupiter

The flexible product range for comfort and safety as per DIN 18650



Your contact

Technical specifications

Technological specifications

| | |
|----------------------------------|----------------------------|
| Technology | Radar |
| Transmitting frequency | 24.125 GHz |
| Transmitter power | < 20 dBm |
| Sizes of field (at 2.2 m) | 0.7 x 0.6 m to 4.7 x 1.7 m |

Mechanical specifications

| | |
|-------------------------------|-------------------------------------|
| Material | Cover: PC Base plate: ABS |
| Dimensions | 176 x 62 x 54 mm (W x H x D) |
| Weight (without cable) | 150 g |
| Types of connections | Plug-in screw terminal or RJ12 plug |

General electrical specifications

| | |
|--------------------------|--------------------------------|
| Voltage | 12–36 VDC 12–28 VAC |
| Operating current | approx. 50 mA at 24 VDC, 24 °C |

Environmental conditions

| | |
|------------------------------|----------------------------------|
| Type of protection | IP54 |
| Operating temperature | –20 °C up to +60 °C |
| Humidity | 0 – 90 % rel., non-condensing |

Standards

| | |
|-------------------|------------------------------|
| Immissions | EN 61000-6-1 EN 61000-6-2 |
| Emissions | EN 61000-6-3 EN 61000-6-4 |

Specific specifications for Merkur 2 and Merkur 2 ES

| | |
|---------------|--|
| Output | Potential-free changeover contact 48 VACDC 0.5 A AC / 1 A DC 60 VA / 30 W |
|---------------|--|

Specific specification for Merkur 2 ES.SM

| | |
|--|--|
| Approval | type-tested as per DIN 18650 CE 0682 (!) |
| Outputs (type-dependent) Relays | 2 potential-free NO 48 VACDC 0.5 A AC / 1 A DC 60 VA / 30 W |
| Frequency | Square NPN-PNP Normal mode stage 10-40 V DC max. 50 mA Residual voltage max. 2 V Mark-to-space ratio 1:1 ± 10 % |
| Voltage | Output voltage: ≤ 10 VDC Output current: 10mA at 3.2 VDC |

Note

Technical details and recommendations on our products are based upon experience and represent guidelines for the user. Details in brochures and specification sheets do not guarantee any special product features, apart from those which we confirm in individual cases. We reserve the right to make changes as the result of technical developments.

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