



The radar innovation with the electronically

sensing the future



Merkur 2

Microwave motion detector for automatic doors

adjustable double field module

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

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Merkur 2

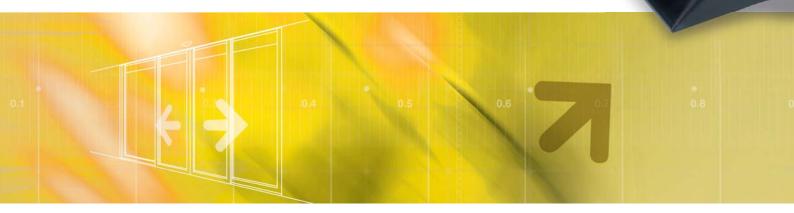
Microwave motion detector for automatic doors

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



tiltable

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.





RegIoBeam 2 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



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

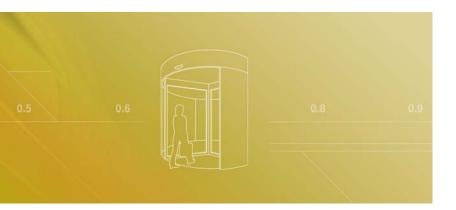
Benefits

- 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 preprogrammed 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 throught



Order details

Merkur 2 Vithout direction recognition Changeover contact, Plug-in screw terminal
Vithout direction recognition
Merkur 2 C Vithout direction recognition Changeover contact, RJ12 socket
Aerkur 2 ES Vith direction recognition Changeover contact, Plug-in screw terminal
Aerkur 2 ES.C Vith direction recognition Changeover contact, RJ12 socket
and emergency exit doors lesign tested as per EN 16005 and DIN 18650
Merkur 2 ES.SM.R.C Vith direction recognition Relay output, RJ12 socket
Nerkur 2 ES.SM.F.C Vith direction recognition requency output, RJ12 socket
Aerkur 2 ES.SM.V.C Vith direction recognition /oltage outlet, RJ12 socket
Aerkur 2 ES.SM.V Vith direction recognition /oltage outlet, Plug-in screw terminal
Bi-directional remote control RegloBeam 2
Cover Merkur white
Cover Merkur silver
AIS – ceiling installation kit
/ICAP - rain and snow cover
ACL 1.0 – semicircular adapter

Additional products

UniScan

Infrared presence detector for automatic swing doors and revolving doors in accordance with EN 16005 and DIN 18650 $\,$

PrimeFamily A

The complete solution for activating and protecting sliding doors in accordance with EN 16005 and DIN 18650



Technical 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 specifica	ations
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	
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 I	Morkur 2 and Morkur 2 FS
Output	Potential-free changeover conta
	48 VACDC
	0.5 A AC / 1 A DC
	60 VA / 30 W
Specific specification for N	
Approval	type-tested as per EN 16005 and DIN 18650 CE 0682 (!)
Outputs (type-dependent)	
Relays	2 potential-free NO 48 VACDC
	48 VACDU 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: \leq 10 VDC
	Output current:10mA at 3.2 VD0

sent guidelines for the user. Details in brochures and specification sheets do not guare special product features, apart from those which we confirm in individual cases. We re the right to make changes as the result of technical developments.

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