MR8534/MR8570/MR8590

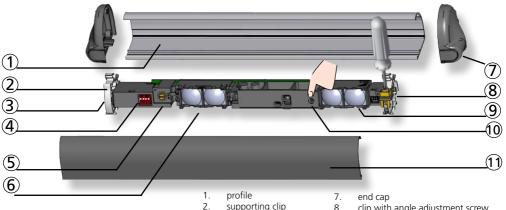


SAFETY SENSOR FOR AUTOMATIC REVOLVING DOORS

User's Guide for product version 0500 and higher See product label for serial number

DESCRIPTION

Is a safety sensor for automatic revolving doors based on active infrared technology. It secures the area in front of the moving door leaf. To do so, modules must be installed on the top rail of the door leaf.



- supporting clip
- 3. main connector
- 4 DIP-switch
- 5. calibration screw
- 6. receiver
- clip with angle adjustment screw 8
- 9. transmitter (TX)
- push button 10.
- front face 11.

TECHNICAL SPECIFICATIONS

Technology:	active infrared with background suppression		
Emission field:	400 mm (W) x 70 mm (D) (at 2 m mounting height; 4 spots active)		
Mounting height:	1.3 m to 3.5 m		
Reaction time:	64 ms (typ)		
Max. presence time:	1 minute		
Supply voltage:	12 V - 24 V AC +/-10% ; 12 V - 30 V DC -5%/+10%		
	(to be operated from SELV compatible power supplies only)		
Max current consumption:	95 mA @ 24 V AC/ 70 mA @ 24 V DC; 170 mA @ 12 V AC/ 130 mA @ 12 V DC (MASTER)		
	85 mA @ 24 V AC/ 60 mA @ 24 V DC; 180 mA @ 12 V AC/ 113 mA @ 12 V DC (other modules)		
Output:	2 relays (free of potential contact)		
Max. contact voltage	42 V AC/DC		
Max. contact current	current 1 A (resistive)		
Max. switching power	30 W (DC) / 42 VA (AC)		
Input:	1 optocoupler (free of potential contact)		
Max. contact voltage:	30 V		
Voltage threshold:	reshold: high: >10 V DC; low: <1 V DC		
Max. number of modules:	r of modules: 4 (up to 6 if 24 V DC)		
Reflectivity:	min. 5% at IR-wavelength of 850 nm		
Degree of protection:	IP54		
Temperature range:	perature range: -25 °C to +55 °C; 0-95% relative humidity, non condensing		
Expected lifetime:	20 years		
Conformity:	DIN 18650-1: ch. 5.7.4; EN 16005 ch. 4.6.8;		
	EN 12978; IEC/EN 61508 (SIL2)		
	EN ISO 13849-1 Performance Level «c» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle)		
	(and the condition that the door control system monitors the sensor at least once per door cycle)		



MOUNTING THE PROFILE

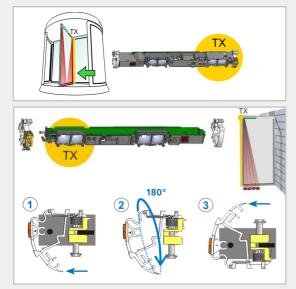


Mount the profiles as close as possible to the closing edge. Leave 2 cm for the black end caps. Take the position of the white clips into account before drilling and fastening the screws.



To loosen the modules, please use a screwdriver.

POSITIONING THE MODULES 2



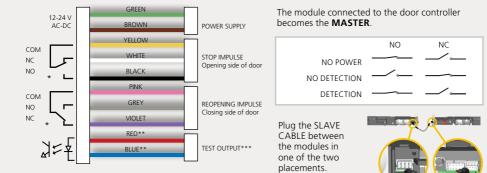
Place the transmitter (TX) next to the door edges that needs to be protected.

Position the angle adjustment clip next to the transmitter.

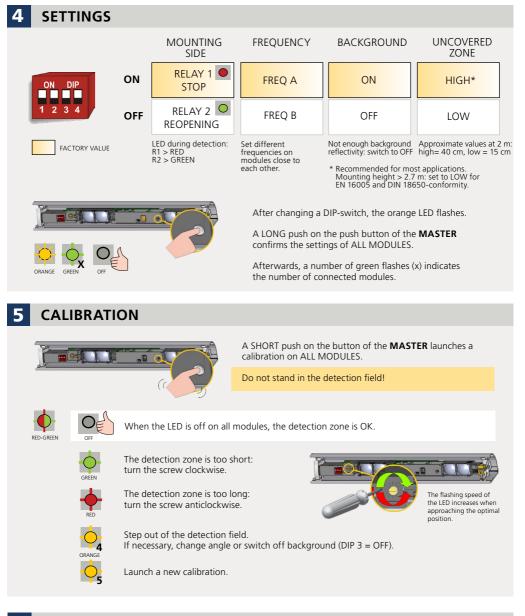
If necessary, turn the module and reposition the clips as indicated.

- 1. Detach the clips
- 2. Turn them by 180°
- 3. Reattach

WIRING 3

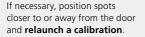


Output status when sensor is operational
 For compliance with EN 16005 and DIN 18650, connection to door controller test output is required.
 if idoor controller is not tested: connect BLUE to 0 V and RED to +12 V - 30 V DC.



6 DOOR SAFETY CHECK

IMPORTANT: Test the good functioning of the installation before leaving the premises.





LED-SIGNALS

LED-SIGNALS				
	The RED or GREEN LED is ON sporadicly or permanently.	Bad calibration	1 Launch a calibration.	
		Bad adjustment of the uncovered zone.	 Check if the DIP-switch 4 is in correct position. Launch a calibration. 	
		The sensor is disturbed by lamps or another sensor.	 Select a different frequency for each module (DIP 2). Launch a calibration. 	
\bigcirc	The sensor does not react, but a calibration can be launched.	The monitoring is activated, but the test input is not powered.	 Chech wiring. Door control with test: Connect RED and BLUE wires to test output. Door control without test: Connect BLUE to 0 V and RED to +12 V - 30 V DC. 	
\bigcirc	The ORANGE LED is on permanently.	The sensor encounters a memory problem.	1 Send the sensor back for a technical check-up.	
\	The ORANGE LED flashes quickly.	DIP-switch setting awaiting confirmation.	1 Corfirm the DIP-switch setting: long push on the push button.	
0 1	The ORANGE LED flashes 1 x every 3 seconds.	The sensor signals an internal fault.	 Cut and restore power supply. If orange LED flashes again, replace sensor. 	
<mark>-</mark> ∕₂	The ORANGE LED flashes 2 x every 3 seconds.	Power supply is out of limit.	 Check power supply (tension, capacity). Reduce the cable length or change cable. 	
- <mark>-></mark> -	The ORANGE LED flashes 3 x every 3 seconds.	Communication error between modules.	 Check wiring between modules. Launch a module count: long push on push button of MASTER. 	
4	The ORANGE LED flashes 4 x every 3 seconds.	The sensor receives not enough IR-energy.	 Launch a new calibration and step out of the detection field. Change angle of spots. Switch off background (DIP 3: OFF). 	
• ;	The ORANGE LED flashes 5 x every 3 seconds.	Calibration error	 Check mounting height. Change position of calibration screw. Launch a new calibration. Switch off background (DIP3: OFF) 	

The device cannot be used for purposes other than its intended use. All other uses cannot be guaranteed by the manufacturer of the sensor.
 The manufacturer of the door system is responsible for carrying out a risk assessment and installing the sensor and the door system in compliance with applicable national and international regulations and standards on door safety.

- The manufacturer of the sensor cannot be held responsible for incorrect installations or inappropriate adjustments of the sensor.
- Only trained and qualified personnel may install and setup the sensor.
- The warranty is invalid if unauthorized repairs are made or attempted by unauthorized personnel.



Came S.p.A.- Via Martiri Della Liberta 15 - IT-31030 DOSSON DI CASIER (TV) TEL (+39) 0422 4940 - FAX (+39) 0422 4941 - info@came.com - www.came.com CAME hereby declares that MR8534/MR8570/MR8590 is in compliance with European directives 2014/30/EU (EMC), 2006/42/EC (Machinery) and 2011/65/EU (RoHS). Original upon request.



This product should be disposed of separately from unsorted municipal waste.

BUY-TO-SELL PRODUCT