MR8701 / FA00362M06 @ ; @ IXIO-ST / 42.8644 / v1 - 02.16

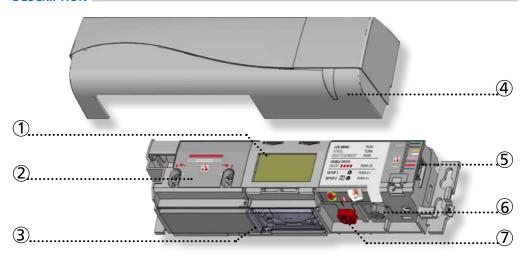
MR8701

CAME

Safety sensor for automatic sliding doors

(according to EN 16005 and DIN 18650)

DESCRIPTION



- 1.
- IR-curtain width adjustment 2.
- 3. IR-lenses

- 4. cover
- 5. main connector
- main adjustment knob IR-curtain angle adjustment knob

DISPLAY DURING NORMAL FUNCTIONING



Opening Safety impulse





Negative display = active output





To adjust contrast, push and turn the grey button simultaneously. During normal function only.

FACTORY VALUE VS. SAVED VALUE _



displayed value = factory value



displayed value = saved value

NAVIGATING IN MENUS



Push to enter the LCD-menu



Enter password if necessary

Not during the first minute after power-on of the sensor.



Select your language before entering the first LCD-menu.

During the first 30 seconds after power-on of the sensor or later in the diagnostics menu.



Scroll menu items



Select Back to return to previous menu or display.



Select More to go to next level:

- basic settings
- advanced settings
- diagnostics

CHANGING A VALUE



menu up-down



Push to select parameter



displayed



up-down



Push to save

new value

new value is

displayed

CHANGING A ZIP CODE __



See application note on ZIP CODE



ZIP code E24 1 56 KG4 01 0 800 02F



ZIP coc E24 1 0108











ZIP code H24 1 56-KG4 01 0 800/02D



ZIP code

Validate the last digit in order to activate the new ZIP code:

- v = valid ZIP code, values will be changed accordingly
- x = invalid ZIP code, no values will be changed
- v/x = valid ZIP code, but from a different product.

Only available values will be changed.

FA00362M06 @ | @ IXIO-ST / 42.8644 VALUE CHECK WITH REMOTE CONTROL .

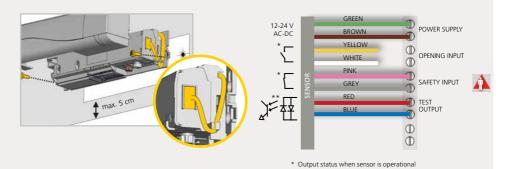




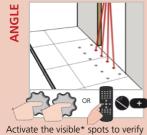


Pressing a parameter symbol on your remote control, displays the saved value directly on the LCD-screen. Do not unlock first.

MOUNTING & WIRING



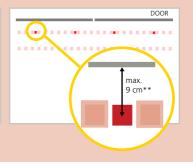
INFRARED SAFETY FIELD



the position of the IR-curtain.

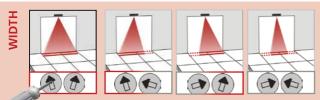


If necessary, adjust the IR-curtain angle (from -7° to 4°, default 0°).

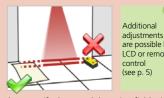


** For compliance with EN 16005 and DIN 18650, connection to door controller test output is required.

* Visibility depends on external conditions. When spots are not visible, use the MRSP to locate the curtains. ** The distance between the inner curtain of the inside door sensor and the inner curtain of the outside door sensor and the inner curtain of the outside door sensor and the inner curtain of the outside door sensor should always be smaller than 20 cm. The distance to the door leaf depends therefore on the thickness of the door leaf.



Part of the detection field can be masked to reduce it. The arrow position determines the width of the detection field.



are possible by LCD or remote control (see p. 5)

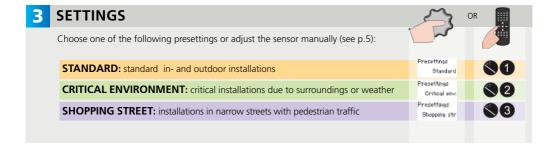
Always verify the actual detection field width with a piece of paper and not the MRSP, which detects the whole emitted field.

Mounting	Detection
height	width
2.00 m	2.00 m
2.20 m	2.20 m
2.50 m	2.50 m
3.00 m	d max
3.50 m	d max



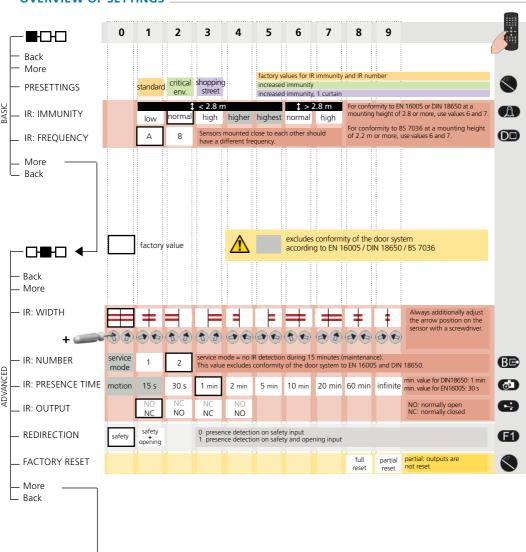
EN 16005	3.50 m
	3 m
	2.50 m
	2 m
	B _C
d max = 3 m	

The size of the detection field varies according to the mounting height and the settings of the sensor. The full door width must be covered.





OVERVIEW OF SETTINGS





all parameter settings in zipped

ZIP CODE

-ERROR LOG

-IR: SPOTVIEW

-IR: C1 ENERG

format

-ID #

DIAGNOSTICS

(see application note on ZIP CODE) unique ID-number last 10 errors + day indication view of spot(s) that trigger detection

signal amplitude received on curtain 1

-2
-POWERSUPPLY
-OPERATINGTIME
RESET LOG
-PASSWORD
LANGUAGE

-IR: C2 ENERG

LANGUAGE ADMIN signal amplitude received on curtain supply voltage at power connector

power duration since first startup delete all saved errors LCD and remotre control password (0000= no password) language of LCD-menu

enter code to access admin mode

TROUBLESHOOTING

E1 ·	\ 1	ORANGE LED flashes 1 x.	The sensor signals an internal fault.	1 Replace sensor.
E2 ·		ORANGE LED flashes 2 x.	The power supply is too low or too high.	1 Check power supply (in the diagnostics menu of the LCD). 2 Check wiring.
E4	4	ORANGE LED flashes 4 x.	The sensor receives not enough IR-energy.	 Decrease the angle of the IR-curtains. Increase the IR-immunity filter (values >2.8 m). Deactivate 1 curtain.
E5 ·	E5 0 5	ORANGE LED flashes 5 x.	The sensor receives too much IR-energy.	Slightly increase the angle of the IR-curtains. Decrease the IR-immunity filter (values 1-3 <2.8 m).
			The sensor is disturbed by external elements.	1 Eliminate the cause of disturbance (lamps, rain cover, door controller housing properly grounded).
E8	\ 8	ORANGE LED flashes 8 x.	IR power emitter is faulty.	1 Replace sensor.
	<u> </u>	ORANGE LED is on.	The sensor encounters a memory problem.	1 Cut and restore power supply. 2 If orange LED lights up again, replace sensor.
	*	RED LED flashes quickly after an as- sisted setup.	The sensor sees the door during the assisted setup.	 Move the IR-curtains away from the door. Install the sensor as close to the door as possible. If needed, use a bracket accessory. Launch a new assisted setup.
		RED LED lights up sporadically.	The sensor vibrates.	 Check if the sensor is fastened firmly. Check position of cable and cover.
			The sensor sees the door.	1 Launch an assisted setup and adjust the IR angle.
			The sensor is disturbed by external conditions.	1 Increase the IR-immunity filter to value 3. 2 Select presetting 2 or 3.
		The LED and the LCD-display are off.		1 Check wiring.
	The reaction of the door does not correspond to the LED-signal.		1 Check output configuration setting. 2 Check wiring.	
		The LCD or remote control does not react.	The sensor is protected by a password.	1 Enter the right password. If you forgot the code, cut and restore the power supply to access the sensor without entering a password during 1 minute.





Presence detection



LED flashes



LED flashes x times



LED flashes red-green



LED flashes guickly

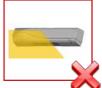


LED is off

INSTALLATION



The sensor should be fixed firmly to avoid extreme vibrations.



Do not cover the sensor



Avoid moving objects and light sources in the detection field.



Avoid highly reflective objects in the infrared field.

MAINTENANCE



It is recommended to clean the optical parts at least once a year or more if required due to environmental conditions.



Do not use aggressive products to clean the optical parts.

SAFETY



The door control unit and the door cover profile must be correctly earthed.



Only trained and qualified personnel may install and setup the sensor.



Always test the good functioning of the installation before leaving the premises.



The warranty is invalid if unauthorized repairs are made or attempted by unauthorized personnel.



- 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.

TECHNICAL SPECIFICATIONS

Supply voltage:	$12\ V$ - $24\ V$ AC +/- 10% ; $12\ V$ - $30\ V$ DC +/- 10% (to be operated from SELV compatible power supplies only)
Power consumption:	< 2.5 W
Mounting height:	2 m to 3.5 m (local regulations may have an impact on the acceptable mounting height)
Temperature range:	-25°C to +55°C; 0-95% relative humidity, non condensing
Degree of protection:	IP54
Noise:	< 70 dB
Expected lifetime:	20 years
Applicable directives:	MD 2006/42/FC: FMC 2004/108/FC: ROHS 2 2011/65/FU



Detection mode:	Presence Typical response time: < 200 ms (max. 500 ms)
Technology:	Active infrared with background analysis Spot: 5 cm x 5 cm (typ) Number of spots: max. 24 per curtain Number of curtains: 2
Output:	Solid-state-relay (potential and polarity free) Max. contact current: 100 mA Max. contact voltage: 42 V AC/DC Holdtime: 0.3 to 1 s

Test input:	Sensitivity: Low: < 1 V; High: > 10 V (max. 30 V)
·	Response time on test request: typical: < 5 ms

EN ISO 13849-1:2008 PL «c» CAT. 2
(under the condition that the door control system monitors the sensor at least once per door cycle)
IEC 61496-1:2012 ESPE Type 2
EN 16005:2012 Chapter 4.6.9:

DIN 18650-1:2010 Chapter 5.7.4 BS 7036-1:1996 Chapter 8.1

EN 12978

Specifications are subject to changes without prior notice. All values measured in specific conditions.



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 and if applicable, the machinery directive 2006/42/EC.

Only trained and qualified personnel may install and setup the sensor. The warranty is void if unauthorized repairs are made or attempted by unauthorized personnel. Avoid touching any electronic and optical components.



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Came S.p.A. hereby declares that MR8701 is in conformity with the basic requirements and the other relevant provisions of the directives 1999/5/EC, 2006/95/EC and

Only for EC countries: According to the European Guideline 2012/19/EC for Waste Electrical and Electronic Equipment (WEEE) Original upon request.

Norm conformity: