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IXIO-ST

Safety sensor for automatic sliding doors (according to EN 16005 and DIN 18650)

User's Guide for product version 0403 and higher See product label for serial number

DESCRIPTION



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

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

ACCESSORIES



BA: Bracket accessory



CDA: Curved door accessory



CA: Ceiling accessory

9 V battery



RA: Rain accessory

HOW TO USE THE LCD? -

DISPLAY DURING NORMAL FUNCTIONING







Safety

Negative display = active output



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

FACTORY VALUE VS. SAVED VALUE _



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

IXIO-ST: INSTALLATION GUIDE

1 MOUNTING & WIRING







Activate the visible* spots to verify the position of the IR-curtain.



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



* Visibility depends on external conditions. When spots are not visible, use the SpotEnder to locate the curtains. ** The distance between the inner curtain of the inside 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.



Additional adjustments 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 Spotfinder, which detects the whole emitted field.

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.



The arrow position determines the width of the detection field.

3	SETTINGS	OR OR	
	Choose one of the following presettings or adjust the sensor manually (see p.5):		
	STANDARD: standard in- and outdoor installations	Presettings Standard	80
	CRITICAL ENVIRONMENT: critical installations due to surroundings or weather	Presettings Critical env	82
	SHOPPING STREET: installations in narrow streets with pedestrian traffic	Presettings Shopping str	83





OVERVIEW OF SETTINGS



TROUBLESHOOTING

E1 🔶	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.	 Check power supply (in the diagnostics menu of the LCD). Check wiring.
E4 🔶	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 🔶	ORANGE LED flashes 5 x.	The sensor receives too much IR-energy.	1 Slightly increase the angle of the IR-curtains.
		The sensor is disturbed by external elements.	1 Eliminate the cause of disturbance (lamps, rain cover, door controller housing properly grounded).
E8 <mark>-</mark> 8	ORANGE LED flashes 8 x.	IR power emitter is faulty.	1 Replace sensor.
\bigcirc	ORANGE LED is on.	The sensor encounters a memory problem.	 Cut and restore power supply. If orange LED lights up again, replace sensor.
₩	RED LED flashes quickly after an assisted 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.	 Increase the IR-immunity filter to value 3. Select presetting 2 or 3.
\bigcirc	The LED and the LCD- display are off.		1 Check wiring.
	The reaction of the door does not correspond to the LED-signal.		 Check output configuration setting. Check wiring.
P	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.

LED-SIGNAL







LED flashes red-green



LED flashes quickly



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% \cdot 12 V - 30 V DC +/-10% (to be operated from SEIV compatible power supplies only)			
Power consumption:	< 2.5 W			
Mounting height:	2 m to 3.5 m (according to the applicable laws and regulations)			
Temperature range:	-25°C to +55°C; 0-95% relative humidity, non condensing			
Degree of protection:	IP54			
Noise:	< 70 dB			
Expected lifetime:	20 years			
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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			
Norm conformity:	EN 12978; EN 61000-6-2; EN 61000-6-3; EN ISO 13849-1 PL «c» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle); EN 62061; EN 61496-1 ESPE Type 2; EN 50581			

EN 16005 Chapter 4.6.8; DIN 18650-1 Chapter 5.7.4; BS 7036-1 Chapter 8.1; EN 60825-1

Specifications are subject to changes without prior notice. All values are measured in specific conditions and in a temperature of 25°C.





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CE	BEA hereby declares that the IXIO-ST is in conformity with the basic requirements and the other relevant provisions of the directives 2014/30/EU, 2006/42/EC and 2011/65/EU. Notified Body for EC-type inspection: 0044 - TÜV NORD CERT GmbH, Langemarckstr. 20, D-45141 Essen
	EC-type examination certificate number: 44 205 13089612
1 1	Angleur, September 2017 Pierre Gardier, authorized representative and responsible for technical documentation
T	The complete declaration of conformity is available on our website.
	Only for EU countries: According to the European Guideline 2012/19/EU for Waste Electrical and Electronic Equipment (WEEE)