

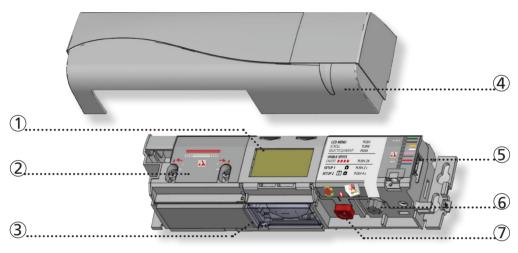
Download the BEA DECODER app for a quick overview of settings



IXIO-SO1 I SAFETY SENSOR FOR AUTOMATIC INDUSTRIAL DOORS

User's Guide for software version 0501 and higher (refer to tracking label on product)

DESCRIPTION



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

- 4. cover
- 5. main connector
- main adjustment knob
 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







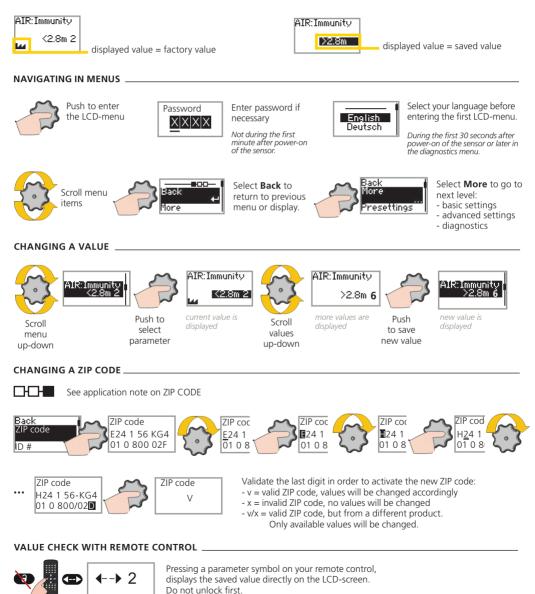


Opening impulse Safety

Negative display = active output

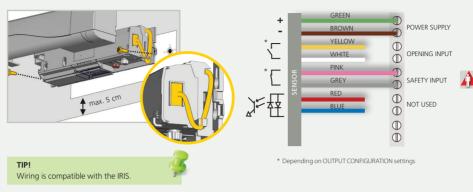
To adjust contrast, push and turn the grey button simultaneously. *During normal function only.*

FACTORY VALUE VS. SAVED VALUE _____

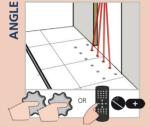


IXIO-SO1 I: INSTALLATION GUIDE

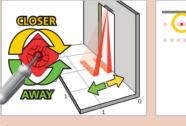
1 MOUNTING & WIRING



2 INFRARED SAFETY FIELD



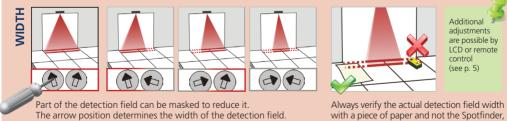
Activate the visible* spots to verify the position of the IR-curtain.



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 Spotfinder to locate the curtains.

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.



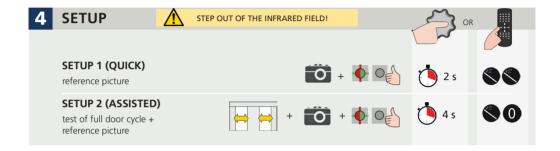
which detects the whole emitted field.

ENGLISH

DOOR

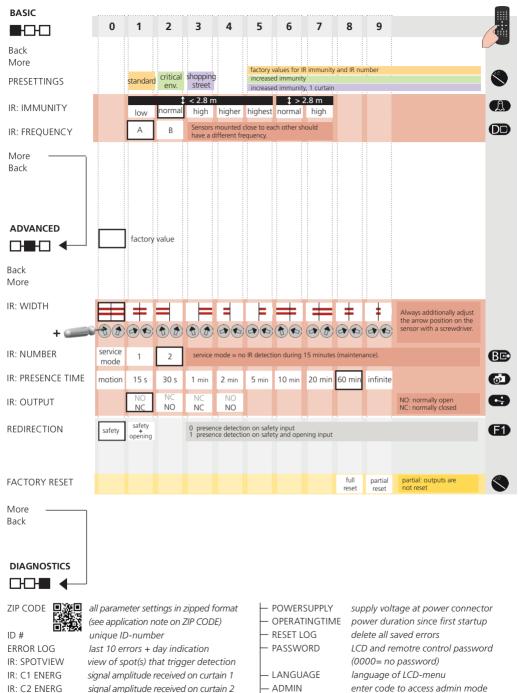
max. 9 cm

SETTINGS 3 OR Choose one of the following presettings or adjust the sensor manually (see p.5): Presettings 91 STANDARD: standard in- and outdoor installations Standard Presettings 32 CRITICAL ENVIRONMENT: critical installations due to surroundings or weather Critical env. Presettings 33 SHOPPING STREET: installations in narrow streets with pedestrian traffic Shopping str.





OVERVIEW OF SETTINGS



TROUBLESHOOTING

E1 🔶	ORANGE LED flashes 1 x.	The sensor signals an internal fault.	1 Replace sensor.
E2 - 2	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.
_		Th	1 Decrease the angle of the IR-curtains.
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.	 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 🔶	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.
	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

LED flashes x times

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 gualified 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%	power source ensuring double insulation between pri- mary voltages and the Equipment supply. The supply
Power consumption:	< 2.5 W	current should be limited to max 3A.
Mounting height: 2 m to 4 m		
Temperature range:	-25°C to +55°C; 0-95% relative humidity, non condensing	
Degree of protection:	IP54	
Noise:	< 70 dB	



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

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

* The Equipment must be powered by a SELV limited



BEA SA | LIEGE Science Park | Allée des Noisetiers, 5 - 4031 ANGLEUR [BELGIUM] | T +32 4 361 65 65 | F +32 4 361 28 58 | info-eu@beasensors.com | www.beasensors.com



BEA hereby declares that the IXIO-SO1 I is in conformity with European directives 2014/30/EU and 2011/65/EU.

The complete declaration of conformity is available on our website.

This product should be disposed of separately from unsorted municipal waste