

Download the BEA DECODER app for a quick overview of settings



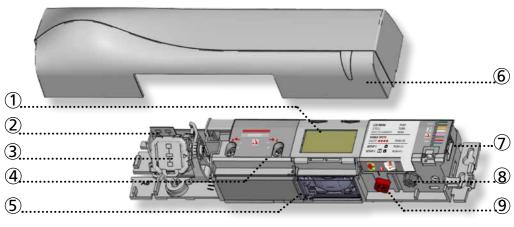


IXIO-D01 I

Opening & safety sensor for automatic industrial doors

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

DESCRIPTION



- 1. LCD
- radar antenna (narrow field) 2.
- 3. radar antenna (wide field)
- 4. IR-curtain width adjustment
- 5. IR-lenses

- 6. cover
- 7. main connector
- 8. main adjustment knob
- 9. IR-curtain angle adjustment knob

ACCESSORIES



BA: Bracket accessory



CDA: Curved door accessory



CA: Ceiling accessory

9 V battery





RA: Rain accessory

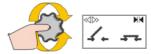
HOW TO USE THE LCD? -

DISPLAY DURING NORMAL FUNCTIONING





Negative display = active output

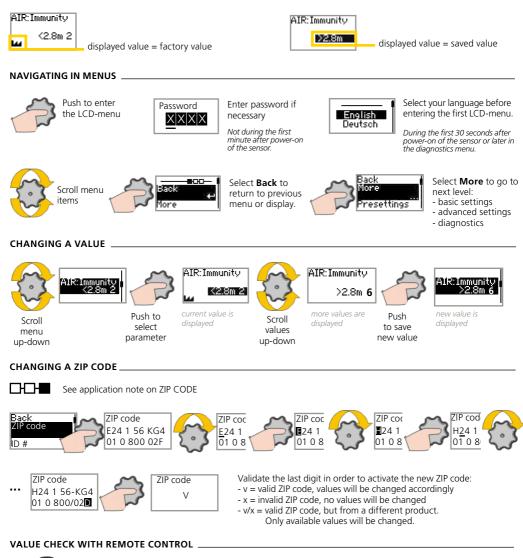


To adjust contrast, push and turn the grey button simultaneously. During normal function only.

Opening impulse

Safety

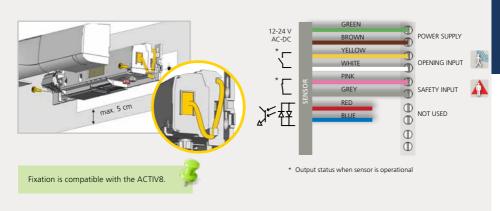
FACTORY VALUE VS. SAVED VALUE _



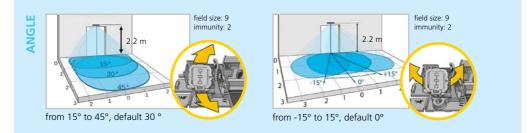
Pressing a parameter symbol on your remote control, displays the saved value directly on the LCD-screen. Do not unlock first.

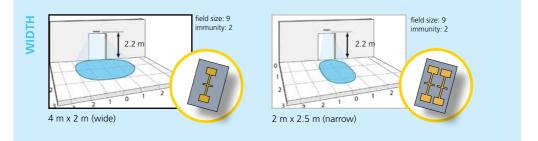
IXIO-DO1 I: INSTALLATION GUIDE

1 MOUNTING & WIRING



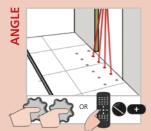
2 RADAR OPENING IMPULSE FIELD





The size of the detection field varies according to the mounting height of the sensor.

3 INFRARED SAFETY FIELD



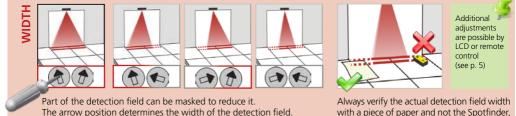
Activate the visible* spots to verify the position of the IR-curtain.



angle (from -7° to 4°, default 0°).

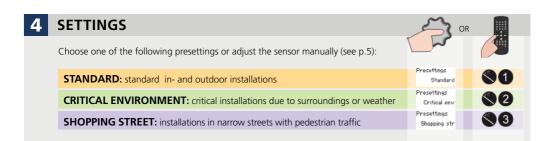
DOOR max. 9 cm

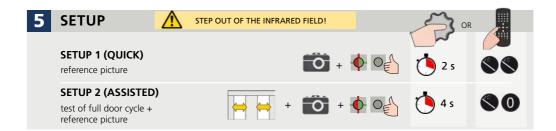
* Visibility depends on external conditions. When spots are not visible, use the Spotfinder to locate the curtains.



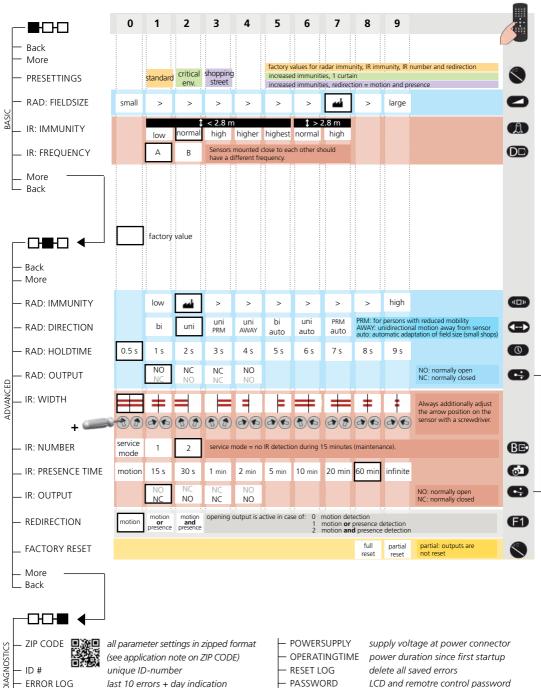
which detects the whole emitted field.

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.





OVERVIEW OF SETTINGS



ERROR LOG IR: SPOTVIEW IR: C1 ENERG IR: C2 ENERG

last 10 errors + day indication view of spot(s) that trigger detection signal amplitude received on curtain 1

signal amplitude received on curtain 2

– LANGUAGE - ADMIN

LCD and remotre control password (0000= no password) language of LCD-menu enter code to access admin mode

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.	 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.
0	GREEN LED lights up sporadically.	The sensor is disturbed by rain and/or leaves.	 Select presetting 2 or 3. Increase radar-immunity filter.
		Ghosting created by door movement.	1 Change radar field angle.
		The sensor vibrates.	 Check if the sensor and door cover is fastened firmly. Check position of cable and cover.
		The sensor sees the door or other moving objects.	 Remove the objects if possible. Change radar field size or angle.
\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 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% ; 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 4 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	
Norms conformity:	EN 300 440-2 V1.4.1; EN 301 489-1 V1.9.2; EN 301 489-3 V1.6.1; EN 62311; EN 62479; EN 50581	
Temperature range: Degree of protection: Noise: Expected lifetime:	-25°C to +55°C; 0-95% relative humidity, non condensing IP54 < 70 dB 20 years	





Detection mode:	Motion Min. detection speed: 5 cm/s	Presence Typical response time: < 200 ms (max. 500 ms)
Technology:	Microwave doppler radar Transmitter frequency: 24.150 GHz Transmitter radiated power: < 20 dBm EIRP Transmitter power density: < 5 mW/cm ²	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	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.



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A HALMA COMPANY

BEA hereby declares that the IXIO-DO1 I is in conformity with the basic requirements and the other relevant provisions of the directives 2014/53/EU and 2011/65/EU.

The complete declaration of conformity is available on our website.