IXIO-ST INDUSTRIAL

SAFETY SENSOR FOR SMALL INTERIOR INDUSTRIAL DOORS













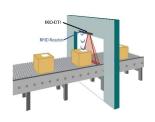


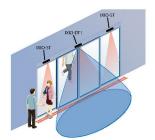












DESCRIPTION

IXIO-ST Industrial is an extremely effective, versatile and easy-to-use safety sensor for interior industrial doors, automatic sliding doors and off door industrial automation.

Precise infrared curtains coupled with visible alignment beams make the IXIO-ST Industrial extremely safe and easy to adjust. This state-ofthe-art sensor features an onboard LCD screen that streamlines the installation and setup processes.

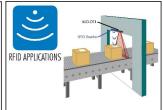
IXIO-ST Industrial The has earned comprehensive list of additional credentials and certifications, including UL, FCC, and IP54.

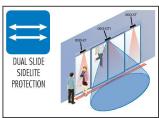
FEATURES & BENEFITS

- Sidelite protection reduces liability
- Two 24 spot, high-density, infrared safety curtains providing precise presence detection
- Four visible red alignment spots are projected on the ground to assist in precise IR curtain adjustment
- Intelligent programming and troubleshooting via a menu-driven LCD
- Onboard microprocessor optimizes data analysis, monitors sensor performance and enables system integration

APPLICATIONS

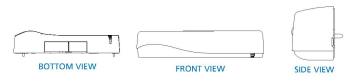






TECHNICAL SPECI					
Technology	Infrared				
Detection mode	Safety				
Transmitter Frequency	N/A				
Transmitter Radiated Power	N/A				
Transmitter Power Density	N/A				
Spot Size	2 in x 2 in				
Max. Number of Spots	24 per curtain				
Max. Number of Curtains	2				
2	12 to 24 VAC 50/60 Hz				
Supply Voltage	12 to 30 VDC				
Output	Solid-state-relay (potential and polarity free)				
Max. Contact Current	400 mA				
Max. Contact Voltage	42 VDC				
Adjustable hold time	Microwave: 0.5 to 9 sec. Infrared: 0.3 or 1 sec.				
Power Consumption	< 2.5 W				
Mounting Height	6.5 ft – 11.5 ft				
	Sensor: -31°F to +131°F				
Temperature Range	LCD: 14°F to +131°F				
	0 to 95% relative humidity, non condensing				
Protection Degree	IP54				
Norm Conformity	R&TTE 1999/5/EC; EMC 2004/108/EC; MD 2006/42/EC; RoHS 2002/95/EC				
Dimensions (D x W x H)	in x in x in				
Cable Length	360 in				

DIMENSIONAL DRAWINGS



RELATED PRODUCTS



10IXIODT1 INDUS STANDARD INDUSTRIAL SENSOR



10IXIODT1V STANDARD SENSOR WITH VIDEO



10IMB MOUNTING BRACKET ADAPTER



10WRC **DELUXE RAIN COVER**



10ICA FLUSH MOUNT CEILING ADAPTER



35.1286 **BLACK REPLACEMENT** COVER



35.1303 SILVER REPLACEMENT WHITE REPLACEMENT COVER COVER



35.1302



10REMOTE UNIVERSAL REMOTE CONTROL

IXIO-ST INDUSTRIAL

IXIO-ST

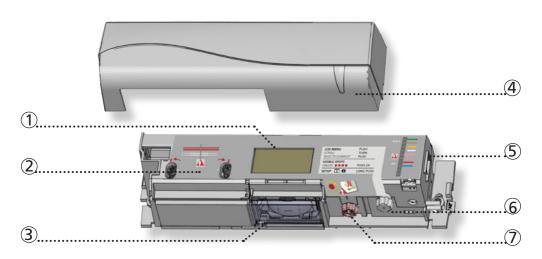
Safety sensor for automatic sliding doors

(according to EN 16005 and DIN 18650)

User's Guide for product version 0100 and higher See product label for serial number



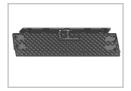
DESCRIPTION

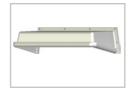


- 1. LCD
- 2. AIR-curtain width adjustment
- 3. AIR-lenses

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

ACCESSORIES





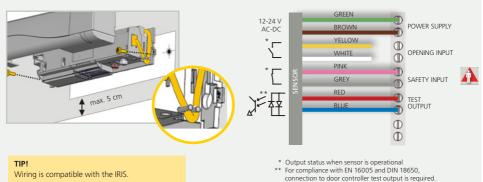
BA: Bracket Accessory

RA: Rain Accessory

1 MOUNTING & WIRING

Activate the visible spots.*



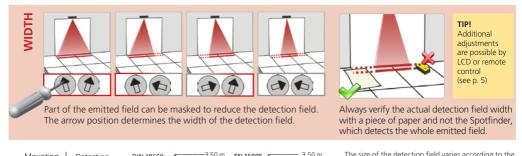


SAFETY FIELD DOOR max. 5 cm** TIP! Alternatively, the Spotfinder can help locating the position of the curtains.

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

** Visibility depends on external conditions

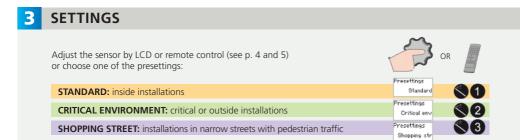
** The distance between the inner curtain of the inside door sensor and the inner curtain of the outside door sensor should
always be smaller than 20 cm. The distance to the door leaf depends therefore on the thickness of the door leaf.

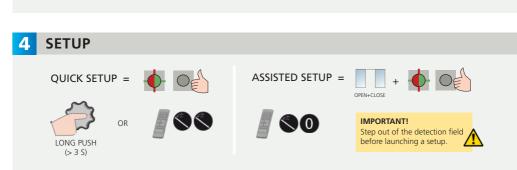


Mounting height	Detection width	DIN 18650 BS 7036	3.50 m	EN 16005	3.50 m 3 m	The size of the detection field varies according to the mounting height of the sensor. The full door width must be covered.
2.00 m 2.20 m 2.50 m 3.00 m 3.50 m	2.00 m 2.20 m 2.50 m d max d max		2.50 m 2 m		2.50 m 2 m	

d max = 2.5 m

d max = 3 m







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

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 .





NAVIGATING IN MENUS _





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.





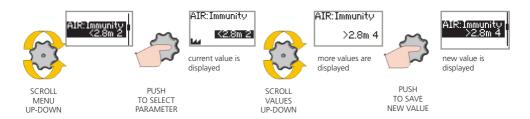


Select **Back** to return to previous menu or display.



- Select More to go to next level:
- basic settings
- advanced settings
- diagnostics

CHANGING A VALUE _

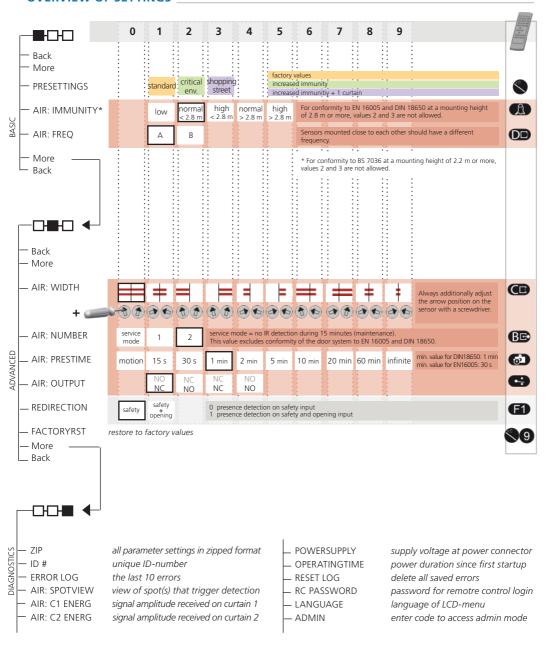


VALUE CHECK WITH REMOTE CONTROL _



Pressing a parameter symbol on your remote control, displays the saved value directly on the LCD-screen.

OVERVIEW OF SETTINGS



_			
E1 1	The ORANGE LED flashes 1 x.	The sensor signals an internal fault.	1 Cut and restore power supply. 2 If orange LED flashes again, replace sensor.
E2 2	The 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	The ORANGE LED flashes 4 x.	The sensor receives not enough AIR-energy.	1 Check the angle of the AIR-curtains. 2 Increase AIR-immunity filter to value 4 or 5 (> 2.8 m).
E5 🔷	The ORANGE LED flashes 5 x.	The sensor receives too much AIR-energy.	1 Check the angle of the AIR-curtains. 2 Decrease the AIR immunity filter to value 1, 2 or 3.
E8 -8	The ORANGE LED flashes 8 x.	The AIR power emitter is faulty.	1 Replace sensor.
	The ORANGE LED is on.	The sensor encounters a memory problem.	Cut and restore power supply. If orange LED lights up again, replace sensor.
*	The RED LED flashes quickly after an assisted setup.	The sensor sees the door during the assisted setup.	1 Check the angle of the AIR-curtains. 2 Launch a new assisted setup. Attention: Do not stand in the detection field!
	The 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 AIR angle.
		The sensor is disturbed by external conditions.	 Increase the AIR-immunity filter to value 3. Select presetting 2 or 3.
	The LED and the LCD-display are off.		Cut and restore power supply. Check wiring.
	The reaction of the door does not correspond to the LED-signal.		1 Check output configuration setting. 2 Check wiring.







INSTALLATION



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.

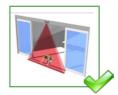
SAFETY



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.

| Original instructions | **42.7608 / V2** - 09.12

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
Expected lifetime:	20 years
Applicable directives:	EMC 2004/108/EC; MD 2006/42/EC; RoHS 2002/95/EC







Presence Detection mode:

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

Solid-state-relay Outputs:

(potential and polarity free) Max. contact current: 100 mA Max. contact voltage: 42 V AC/DC

Holdtime: 0.3 to 1 s

Sensitivity: Low: < 1 V; High: > 10 V (max. 30 V) Test input:

Response time on test request: typical: < 5 ms

Norm conformity: EN 12978

> 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)

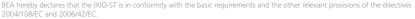
EN 16005:2012 Chapter 4.6.8; DIN 18650-1:2010 Chapter 5.7.4 BS 7036-1:1996 Chapter 8.1

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



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@BEA.BE | WWW.BEA.BE





Jean-Pierre Valkenberg, authorized representative and responsible for technical documentation

Notified Body for EC-type inspection: 0044 - TÜV NORD CERT GmbH, Langemarckstr. 20, D-45141 Essen EC-type examination certificate number: 44 205 12 405836-001



The complete declaration of conformity is available on our website: www.bea-pedestrian.be