

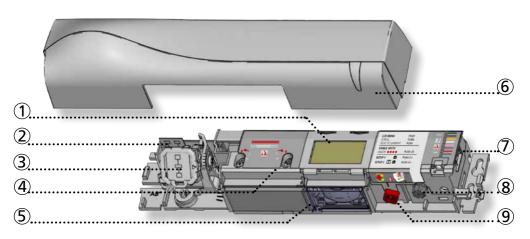
# IXIO-DT3

# Opening & safety sensor for automatic sliding doors

(according to EN 16005 and DIN 18650, including emergency exits)

User's Guide for product version 0300 and higher See product label for serial number

#### **DESCRIPTION**



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

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

#### **ACCESSORIES** .







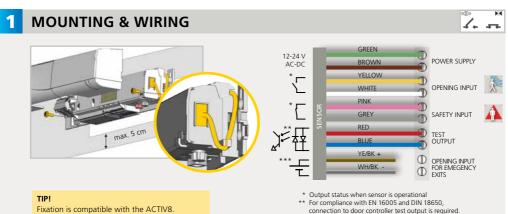


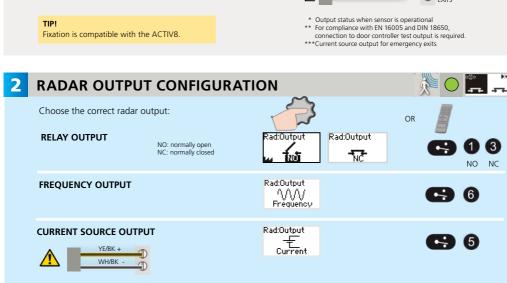
BA: Bracket Accessory

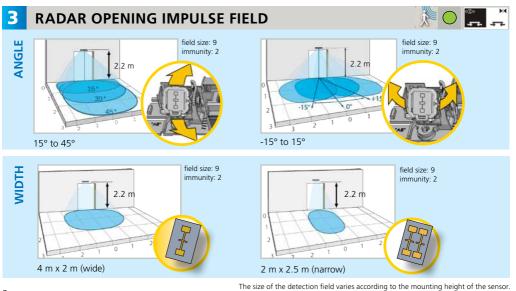
CA: Ceiling Accessory

RA: Rain Accessory

Retrofit interface







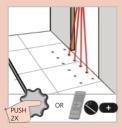
## **INFRARED SAFETY FIELD**







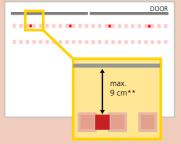




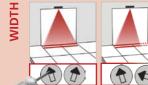
Activate the visible spots.\*



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



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









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

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

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

Mounting Detection width height 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





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.

## **SETTINGS**

Adjust the sensor by LCD or remote control (see p. 4 and 5) or choose one of the presettings:





**STANDARD:** inside installations

**CRITICAL ENVIRONMENT:** critical or outside installations

Standard Presettings Critical en

**SHOPPING STREET:** installations in narrow streets with pedestrian traffic

Shopping st

### **SETUP**

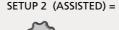


**IMPORTANT!** Step out of the detection field before launching a setup.























OR





**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 \_



displayed value = factory value



displayed value = 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 \_



SCROLL MENU UP-DOWN



PUSH TO SELECT PARAMETER



current value is displayed



SCROLL VALUES UP-DOWN

## AIR:Immunity >2.8m 1

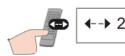
more values are displayed



new value is displayed

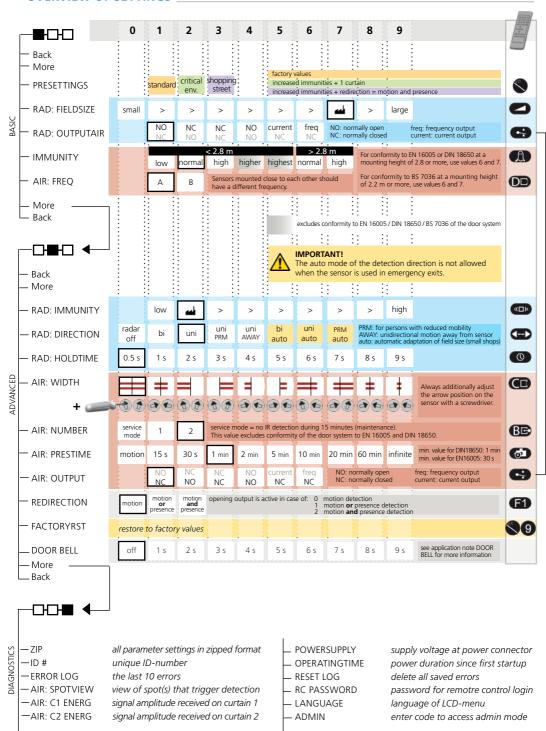
PUSH TO SAVE NEW VALUE

#### 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	<del>\</del> 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	$\frac{\circ}{2}$	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 the AIR-immunity filter (values >2.8 m).
E5	<b>\\</b> _5	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 (values 1-3 <2.8 m).
E6	<del>_</del> 6	The ORANGE LED flashes 6 x.	The radar sensor output is faulty.	1 Replace sensor.
E7	<del>\</del> 7	The ORANGE LED flashes 7 x.	The internal test of the radar is disturbed.	1 Change radar field angle. 2 If orange LED flashes again, replace sensor.
E8	<b>6</b> 8	The ORANGE LED flashes 8 x.	The AIR power emitter is faulty.	1 Replace sensor.
E9	<del></del>	The ORANGE LED flashes 9 x.	The internal reference of the radar is faulty.	1 Replace sensor.
		The 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.
	*	The RED LED flashes quickly after an assisted setup.	The sensor sees the door during the assisted setup.	Check the angle of the AIR-curtains.     Launch a new assisted setup.     Attention: Do not stand in the detection field!
		The RED LED lights up sporadically.	The sensor vibrates.	<ol> <li>Check if the sensor is fastened firmly.</li> <li>Check position of cable and cover.</li> </ol>
			The sensor sees the door.	1 Launch an assisted setup and adjust the AIR angle.
			The sensor is disturbed by external conditions.	<ul><li>1 Increase the AIR-immunity filter to value 3.</li><li>2 Select presetting 2 or 3.</li></ul>
		The 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.	<ol> <li>Check if the sensor and door cover is fastened firmly.</li> <li>Check position of cable and cover.</li> </ol>
			The sensor sees the door or other moving objects.	1 Remove the objects if possible. 2 Change radar field size or angle.
		The LED and the LCD-display are off.		1 Cut and restore power supply. 2 Check wiring.
		The reaction of the door does not correspond to the LED-signal.		<ul><li>Check output configuration setting.</li><li>Check wiring.</li></ul>













#### 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.

Power consumption: < 2.5 W  Mounting height: 2 m to 3.5 m (local regulations may h				
Power consumption: < 2.5 W  Mounting height: 2 m to 3.5 m (local regulations may h  Temperature range: -25°C to +55°C; 0-95% relative  Degree of protection: IP54  Noise: < 70 dB  Expected lifetime: 20 years	0 V DC 1/109/ (to be apposited from CTIV compatible power symplics only)			
Mounting height: 2 m to 3.5 m (local regulations may height)  Temperature range: -25°C to +55°C; 0-95% relative  Degree of protection: IP54  Noise: < 70 dB  Expected lifetime: 20 years	12 V - 24 V AC +/-10%; 12 V - 30 V DC +/-10% (to be operated from SELV compatible power supplies only)			
Temperature range: -25°C to +55°C; 0-95% relative  Degree of protection: IP54  Noise: < 70 dB  Expected lifetime: 20 years	2 m to 3.5 m (local regulations may have an impact on the acceptable mounting height)  -25°C to +55°C; 0-95% relative humidity, non condensing  IP54			
Degree of protection: IP54  Noise: < 70 dB  Expected lifetime: 20 years				
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, ,				
Applicable directives: R&LLE 1999/5/EC; MD 2006/42/	,			
	ACC; LVD 2006/95/EC; ROHS 2 2011/65/EU			
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 G Transmitter radiated power: < 2 Transmitter power density: < 5 r	0 dBm EIRP Number of spots: max. 24 per curtain			
Output:  Solid-state-relay (potential and polarity free) Max. contact current: 100 mA Max. contact voltage: 42 V AC/I  Frequency output: Pulsed signal (f= 100 Hz +/- 109  Current source output: Galvanically isolated current sour No detection: current source ON Open circuit voltage: 6.5 V Output voltage available at 10 n Typical load: up to 3 optocouple Detection: current source OFF Open-circuit remained voltage: -	Holdtime: 0.3 to 1 s  free In A: 3 V min. rs in series			
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 ISO 13849-1:2008 PL «d» CAT. 2 EN 16005:2012 Chapter 4.6.8; DIN 18650-1:2010 Chapter 5.7.4; AutSchR

BS 7036-1:1996 Chapter 7.3.2 (only applicable for frequency and current source

output)

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) IEC 61496-1:2012 ESPE Type 2

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.



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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

Angleur, June 2013

Pierre Gardier, authorized representative and responsible for technical documentation The complete declaration of conformity is available on our website: www.bea-pedestrian.be