

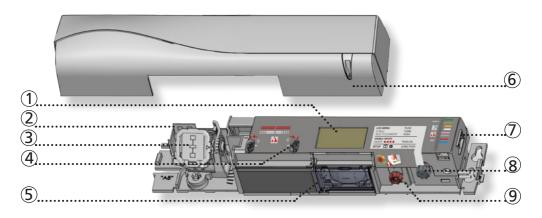
## IXIO-DT1

# Opening & 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**



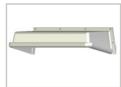
- 1. LCD
- 2. radar antenna (narrow field)
- radar antenna (wide field)
- 4. AIR-curtain width adjustment
- AIR-lenses

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

#### **ACCESSORIES**



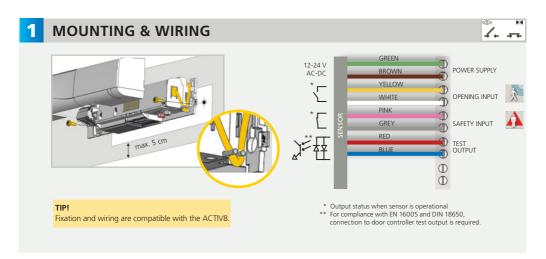


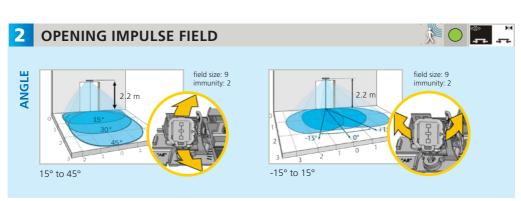


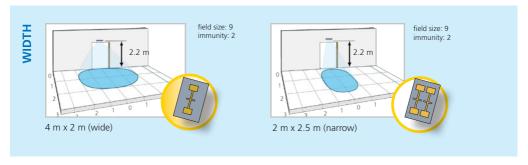
BA: Bracket Accessory

CA: Ceiling Accessory

RA: Rain Accessory







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

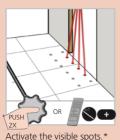
## **SAFETY FIELD**

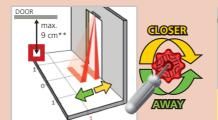


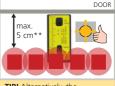








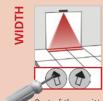




TIP! Alternatively, the Spotfinder can help locating the position of the curtains.

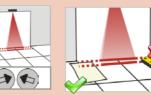
If necessary, adjust the AIRcurtain angle (from -7° to 4°).

\* 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.







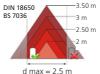


TIP! Additional adjustments are possible by LCD or remote control (see p. 5)

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
height	width
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 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:

Presettings

Standard



**STANDARD:** inside installations

**CRITICAL ENVIRONMENT:** critical or outside installations

Presettings Critical er Presettings



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

Shopping str

## **SETUP**











ASSISTED SETUP =







LONG PUSH (> 3 S)





Step out of the detection field before launching a setup.





**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.





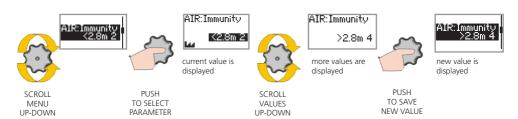


Select **Back** to return to previous menu or display.



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

#### CHANGING A VALUE \_

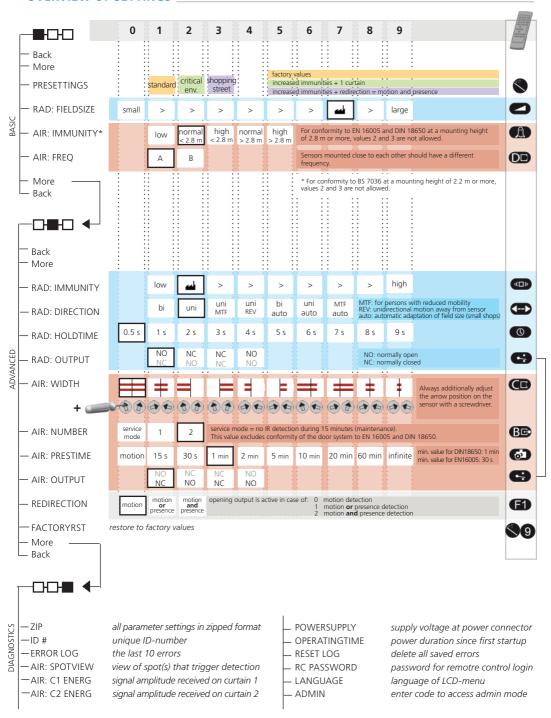


#### VALUE CHECK WITH REMOTE CONTROL \_



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

#### **OVERVIEW OF SETTINGS**



_			
E1 <	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 <	The ORANGE LED flashes 2 x.	The power supply is too low or too high.	<ol> <li>Check power supply (in the diagnostics menu of the LCD).</li> <li>Check wiring.</li> </ol>
E4 -	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 -	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.	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	The sensor vibrates.	<ol> <li>Check if the sensor is fastened firmly.</li> <li>Check position of cable and cover.</li> </ol>
	sporadically.	The sensor sees the door.	1 Launch an assisted setup and adjust the AIR angle.
		The sensor is disturbed by external conditions.	<ol> <li>Increase the AIR-immunity filter to value 3.</li> <li>Select presetting 2 or 3.</li> </ol>
0	The GREEN LED lights up	The sensor is disturbed by rain and/or leaves.	<ul><li>Select presetting 2 or 3.</li><li>Increase radar-immunity filter.</li></ul>
	sporadically.	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.	<ul><li>1 Remove the objects if possible.</li><li>2 Change radar field size or angle.</li></ul>
	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.		<ol> <li>Check output configuration setting.</li> <li>Check wiring.</li> </ol>











#### 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.

TECHNICAL SPECI	FICATIONS			
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:	R&TTE 1999/5/EC; EMC 2004/108/EC; MD 2006/42/EC; RoHS 2002/95/EC			
Detection mode:	Motion	Presence		
Detection mode.	Min. detection speed: 5 cm/s	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/cm²	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		
Test input:		Sensitivity: Low: < 1 V; High: > 10 V (max. 30 V) Response time on test request: typical: < 5 ms		
Noise:	< 70 dB			
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;		

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



DIN 18650-1:2010 Chapter 5.7.4 BS 7036-1:1996 Chapter 8.1







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 2012 Jean-Pierre Valkenberg, authorized representative and responsible for technical documentation The complete declaration of conformity is available on our website: www.bea-pedestrian.be

Only for EC countries: According to the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment (WEEE)