

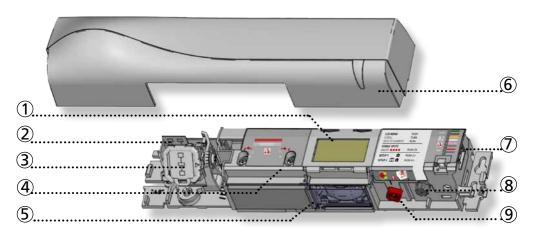
IXIO-DT1

Opening & safety sensor for automatic sliding doors

(according to EN 16005 and DIN 18650)

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
- 5. AIR-lenses

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

ACCESSORIES .



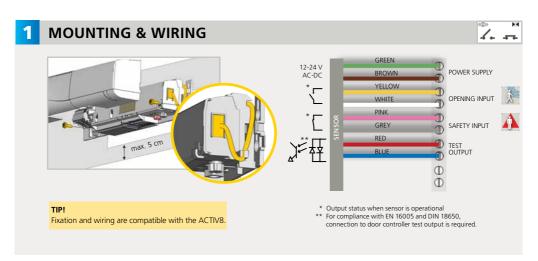


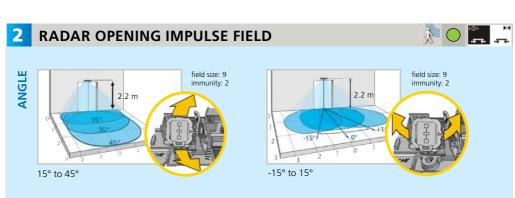


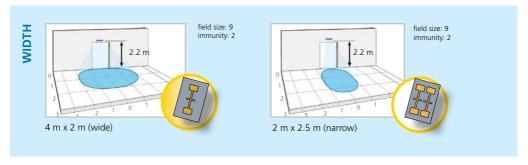
BA: Bracket Accessory

CA: Ceiling Accessory

RA: Rain Accessory







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

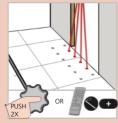
INFRARED SAFETY FIELD



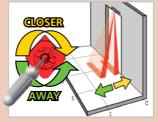




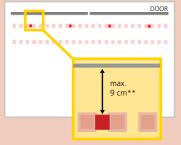




Activate the visible spots.*

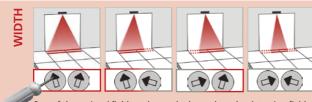


If necessary, adjust the AIR-curtain angle (from -7° to 4°).

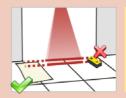


* Visibility depends on external conditions. When spots are not visible, use the Spotfinder to locate the curtains. ** The distance between the inner curtain of the inside door sensor and the inner curtain of the outside door sensor should always be smaller than 20 cm. The distance to the door leaf depends therefore on the thickness of the door leaf.

3 50 m



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

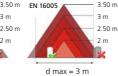


TIP! Additional adjustments are possible by LCD or remote control (see p. 5)

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

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	ì
3.50 III g 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:

Presettino Standard

STANDARD: inside installations

CRITICAL ENVIRONMENT: critical or outside installations

Critical er

SHOPPING STREET: installations in narrow streets with pedestrian traffic

SETUP



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



LONG PUSH (2 s)





OR LONG PUSH (4 s)



Presettings

Shopping str









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 MFNU **UP-DOWN**



PUSH TO SELECT PARAMETER



current value is displayed



VALUES **UP-DOWN**



more values are displayed



PUSH TO SAVE NEW VALUE



new value is displayed

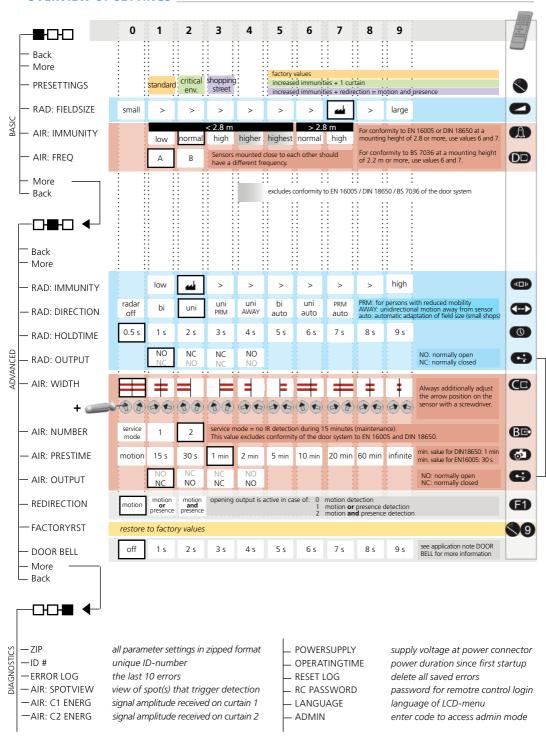
VALUE CHECK WITH REMOTE CONTROL _





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.	 Check power supply (in the diagnostics menu of the LCD). Check wiring.
E4 -	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 -(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).
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.	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.	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.	 Check if the sensor is fastened firmly. Check position of cable and cover.
	sporadically.	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 GREEN LED lights up	The sensor is disturbed by rain and/or leaves.	 Select presetting 2 or 3. Increase radar-immunity filter.
	sporadically.	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.	1 Remove the objects if possible.2 Change radar field size or angle.
	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.		 Check output configuration setting. Check wiring.











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 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			
Noise:	< 70 dB			
Expected lifetime:	20 years			
Applicable directives:	R&TTE 1999/5/EC; MD 2006/42/EC; LVD 2006/95/EC; ROHS 2 2011/65/EU			
	* O **			
Detection mode:	Motion	Presence		
	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		
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) IEC 61496-1:2012 ESPE Type 2 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

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BEA hereby declares that the IXIO-DT1 is in conformity with the basic requirements and the other relevant provisions of the directives 1999/5/EC, 2004/108/EC and 2006/42/EC.

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

