

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 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
Min. detection speed: 5 cm/s



Detection mode: 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
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*; DIN 18650-1:2010 Chapter 5.7.4

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

* at the time of the product launch, the standard was not approved yet (FprEN 16005:2012)

IXIO-DT1

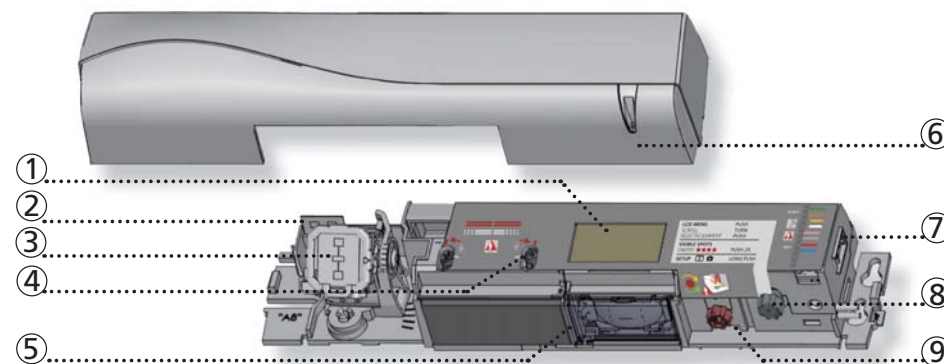
Opening & safety sensor for automatic sliding doors

(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 | 6. cover |
| 2. radar antenna (narrow field) | 7. main connector |
| 3. radar antenna (wide field) | 8. main adjustment knob |
| 4. AIR-curtain width adjustment | 9. AIR-curtain angle adjustment knob |
| 5. AIR-lenses | |

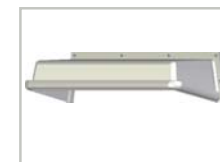
ACCESSORIES



BA: Bracket Accessory



CA: Ceiling Accessory



RA: Rain Accessory



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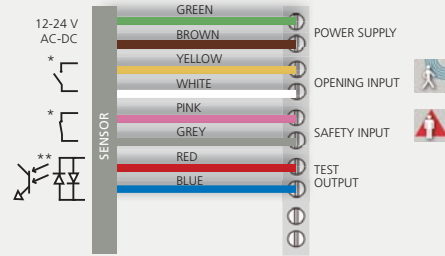
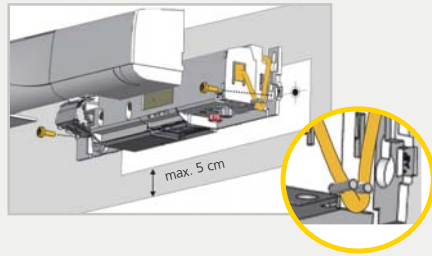
BEA hereby declares that the IXIO-DT1 is in conformity with the basic requirements and the other relevant provisions of the directives 1999/5/EC, 2004/108/EC and 2006/42/EC.

Notified Body for EC-type inspection: 0044 - TÜV NORD CERT GmbH, Langemarckstr. 20, D-45141 Essen
Angleur, June 2012 Jean-Pierre Valkenberg, Authorized representative
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)

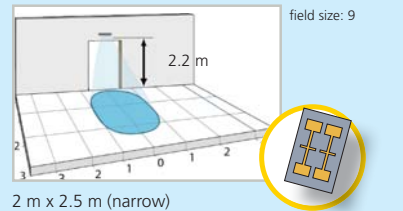
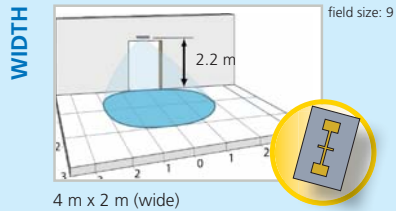
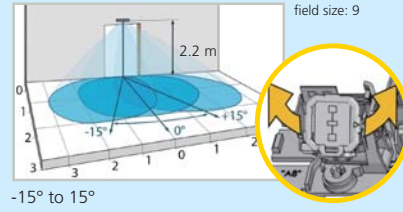
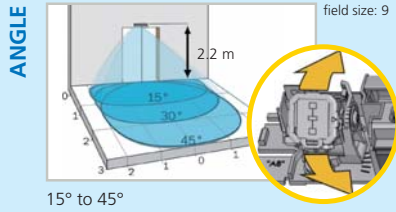
1 MOUNTING & WIRING



TIP!
Fixation and wiring are compatible with the ACTIV8.

* Output status when sensor is operational
** For compliance with EN 16005 and DIN 18650, connection to door controller test output is required.

2 OPENING IMPULSE FIELD

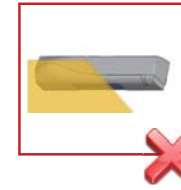


The size of the detection field varies according to the mounting height of the sensor.

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

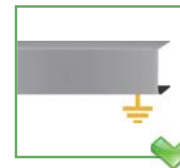


It is recommended to clean the optical parts at least once a year or more if required due to environmental conditions.



Do not use aggressive products to clean the optical parts.

SAFETY



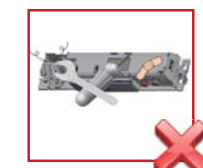
The door control unit and the door cover profile must be correctly earthed.



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.

TROUBLESHOOTING

E1	The ORANGE LED flashes 1 x.	The sensor signals an internal fault.	<ol style="list-style-type: none"> 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 style="list-style-type: none"> 1 Check power supply (in the diagnostics menu of the LCD). 2 Check wiring.
E4	The ORANGE LED flashes 4 x.	The sensor receives not enough AIR-energy.	<ol style="list-style-type: none"> 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.	<ol style="list-style-type: none"> 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.	<ol style="list-style-type: none"> 1 Replace sensor.
	The ORANGE LED is on.	The sensor encounters a memory problem.	<ol style="list-style-type: none"> 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.	<ol style="list-style-type: none"> 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.	<ol style="list-style-type: none"> 1 Check if the sensor is fastened firmly. 2 Check position of cable and cover.
		The sensor sees the door.	<ol style="list-style-type: none"> 1 Launch an assisted setup and adjust the AIR angle.
		The sensor is disturbed by external conditions.	<ol style="list-style-type: none"> 1 Increase the AIR-immunity filter to value 3. 2 Select presetting 2 or 3.
	The GREEN LED lights up sporadically.	The sensor is disturbed by rain and/or leaves.	<ol style="list-style-type: none"> 1 Select presetting 2 or 3. 2 Increase radar-immunity filter.
		Ghosting created by door movement.	<ol style="list-style-type: none"> 1 Change radar field angle.
		The sensor vibrates.	<ol style="list-style-type: none"> 1 Check if the sensor and door cover is fastened firmly. 2 Check position of cable and cover.
		The sensor sees the door or other moving objects.	<ol style="list-style-type: none"> 1 Remove the objects if possible. 2 Change radar field size or angle.
	The LED and the LCD-display are off.		<ol style="list-style-type: none"> 1 Cut and restore power supply. 2 Check wiring.
		The reaction of the door does not correspond to the LED-signal.	<ol style="list-style-type: none"> 1 Check output configuration setting. 2 Check wiring.

Motion detection
 Presence detection
 LED flashes
 LED flashes quickly
 LED is off

3 SAFETY FIELD

ANGLE

Activate the visible spots.*

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

WIDTH

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.

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

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

* 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.

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.

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

Mounting height	Detection width (EN 16005/ DIN 18650)
2.00 m	2.00 m
2.20 m	2.20 m
2.50 m	2.50 m
3.00 m	3.00 m*
3.50 m	3.00 m*

*max. 2.50 m for compliance with DIN 18650

The size of the detection field varies according to the mounting height of the sensor. The full door width must be covered.

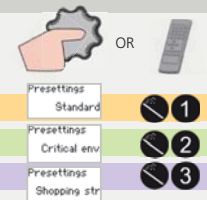
4 SETTINGS

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

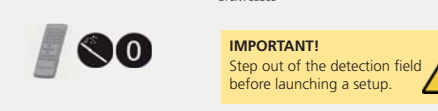
SHOPPING STREET: installations in narrow streets with pedestrian traffic



5 SETUP

QUICK SETUP =

ASSISTED SETUP = +



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

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

