

Download the BEA DECODER app for a quick overview of settings





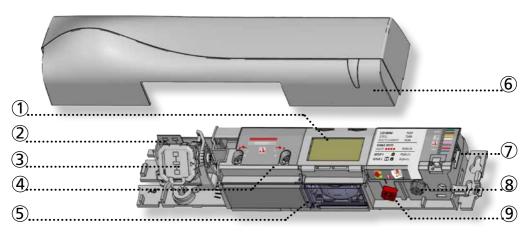
IXIO-DT3

Opening & safety sensor for automatic sliding doors

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

User's Guide for product version 0400 and higher See product label for serial number

DESCRIPTION



- ICD
- radar antenna (narrow field)
- 3. radar antenna (wide field)
- 4. IR-curtain width adjustment
- 5. IR-lenses

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

ACCESSORIES _



BA: Bracket accessory



CA: Ceiling accessory



RA: Rain accessory



CDA: Curved door accessory



Retrofit interface



Door bell + interface



Smart Daisy Chain hub



9 V battery

HOW TO USE THE LCD? –

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 .



Push to enter the LCD-menu



Enter password if necessary

Not during the first minute after power-on of the sensor.



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.



Scroll 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





Scroll values up-down



more values are



Push to save new value



new value is

CHANGING A ZIP CODE _



See application note on ZIP CODE



ZIP code E24 1 56 KG4 01 0 800 02F



ZIP coc E24 1 0108











ZIP code H24 1 56-KG4 01 0 800/02D



ZIP code

Validate the last digit in order to activate the new ZIP code:

- v = valid ZIP code, values will be changed accordingly
- x = invalid ZIP code, no values will be changed
- -v/x = valid ZIP code, but from a different product. Only available values will be changed.

VALUE CHECK WITH REMOTE CONTROL .



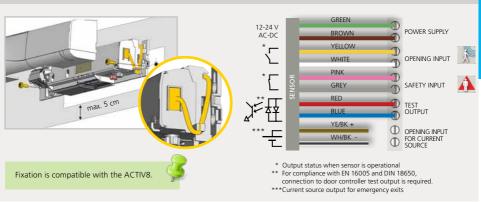


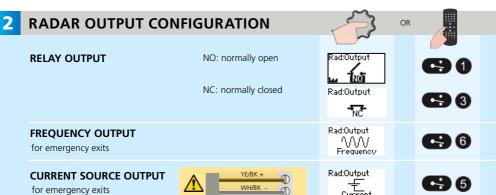


Pressing a parameter symbol on your remote control, displays the saved value directly on the LCD-screen. Do not unlock first.

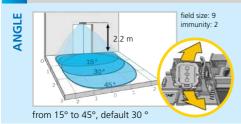
IXIO-DT3: INSTALLATION GUIDE

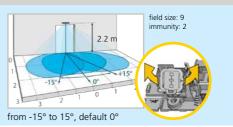
1 MOUNTING & WIRING

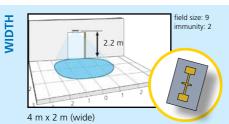


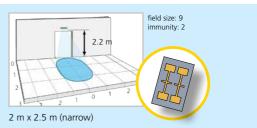




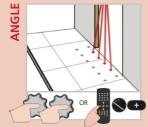








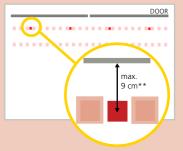
4 INFRARED SAFETY FIELD



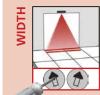
Activate the visible* spots to verify the position of the IR-curtain.



If necessary, adjust the IR-curtain angle (from -7° to 4°, default 0°).



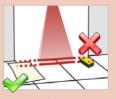
* Visibility depends on external conditions. When spots are not visible, use the Spotfinder to locate the curtains.
** The distance between the inner curtain of the inside door sensor and the inner curtain of the outside door sensor should always be smaller than 20 cm. The distance to the door leaf depends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











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

Part of the detection field can be masked to reduce it.

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 height
 Detection 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 and the settings of the sensor.

The full door width must be covered.

5 SETTINGS

Choose one of the following presettings or adjust the sensor manually (see p.5):

SHOPPING STREET: installations in narrow streets with pedestrian traffic

STANDARD: standard in- and outdoor installations

CRITICAL ENVIRONMENT: critical installations due to surroundings or weather



Presettings
Critical env

Presettings
Shopping str

6 SETUP



STEP OUT OF THE INFRARED FIELD!







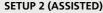
reference picture











test of full door cycle + reference picture





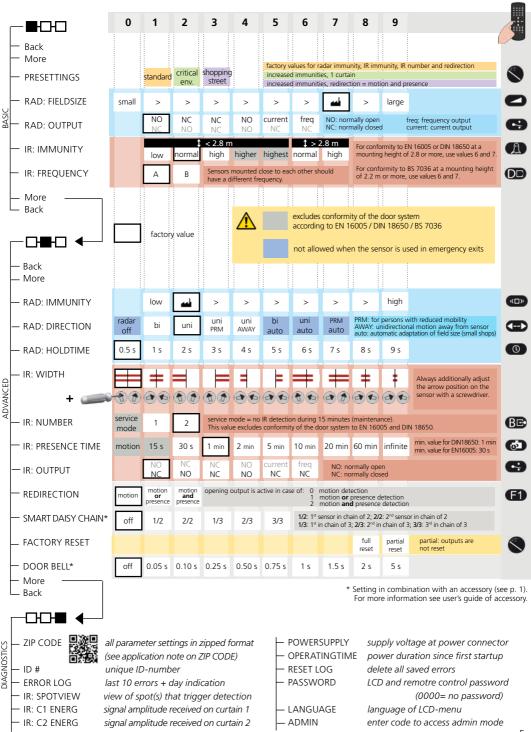








OVERVIEW OF SETTINGS



TROUBLESHOOTING					
F1 (ORANGE LED flashes 1 x.	The sensor signals	1 Replace sensor.		
1		an internal fault.			
E2	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	ORANGE LED flashes 4 x.	The sensor receives not enough IR-energy.	 Decrease the angle of the IR-curtains. Increase the IR-immunity filter (values >2.8 m). Deactivate 1 curtain. 		
E5 \ 5	ORANGE LED flashes 5 x.	The sensor receives too much IR-energy.	Slightly increase the angle of the IR-curtains. Decrease the IR-immunity filter (values 1-3 <2.8 m).		
		The sensor is disturbed by external elements.	1 Eliminate the cause of disturbance (lamps, rain cover, door controller housing properly grounded).		
E6 -6	ORANGE LED flashes 6 x.	Faulty radar sensor output	1 Replace sensor.		
E7 7	ORANGE LED flashes 7 x.	The internal test of the radar is disturbed.	 Change radar field angle or antenna. Launch a quick setup. If orange LED flashes again, replace sensor. 		
E8 🔷	ORANGE LED flashes 8 x.	IR power emitter is faulty.	1 Replace sensor.		
E9 9	ORANGE LED flashes 9 x.	Internal reference of the radar is faulty.	1 Replace sensor.		
	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.		
*	RED LED flashes quickly after an assisted setup.	The sensor sees the door during the assisted setup.	 Move the IR-curtains away from the door. Install the sensor as close to the door as possible. If needed, use a bracket accessory. Launch a new assisted setup. 		
	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 IR angle.		
		The sensor is disturbed by external conditions.	 Increase the IR-immunity filter to value 3. Select presetting 2 or 3. 		
	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.	 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.	Remove the objects if possible. Change radar field size or angle.		
	The LED and the LCD-display are off.		1 Check wiring.		
	The reaction of the door does not correspond to the LED-signal.		 Check output configuration setting. Check wiring. 		
	The LCD or remote control does not react.	The sensor is protected by a password.	1 Enter the right password. If you forgot the code, cut and restore the power supply to access the sensor without entering a password during 1 minute.		

LED-SIGNAL



Motion detection





LED flashes



LED flashes x times



LED flashes red-green



LED flashes quickly



LED is off

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 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					
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					
		4 - 4 -				
Detection mode:	Motion	Presence				
	Min_detection_speed: 5 cm/s	Typical response time: < 200 ms (max. 500 ms)				

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 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 - in switching mode: NO/NC - in frequency mode: pulsed signal (f= 100 Hz +/- 10%) Galvanically isolated current source No detection: current source ON Open circuit voltage: 6.5 V Output voltage available at 10 mA: 3 V min. Typical load: up to 3 optocouplers in series Detection: current source OFF Open-circuit remained voltage: < 500 mV	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 «d» CAT. 2 EN 16005:2012 Chapter 4.6.8; DIN 18650-1:2010 Chapter 5.7.4; AutSchR	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







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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BEA hereby declares that the IXIO-DT3 is in conformity with the basic requirements and the other relevant provisions of the directives 1999/5/EC, 2006/95/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, October 2014

BS 7036-1:1996 Chapter 7.3.2

and current source output)

(only applicable for relay output in frequency mode

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

