

Download the BEA DECODER app for a quick overview of settings





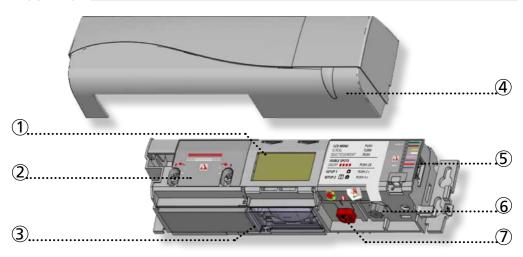
IXIO-ST

SAFETY SENSOR FOR AUTOMATIC SLIDING DOORS

(according to EN 16005 and DIN 18650)

User's Guide for product version 0501 and higher See product label for serial number

DESCRIPTION



- 1. LCD
- IR-curtain width adjustment 2.
- 3. IR-lenses

- 4. cover
- 5. main connector
- 6. main adjustment knob
- 7. IR-curtain angle adjustment knob

ACCESSORIES



BA: Bracket accessory



CA: Ceiling accessory



RA: Rain accessory



CDA: Curved door accessory



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.







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



<2.8m 2



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 .



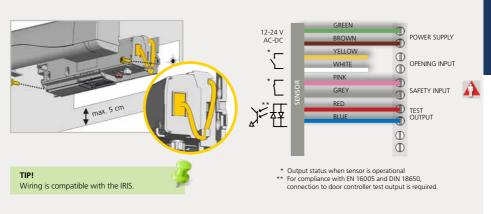




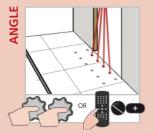
Pressing a parameter symbol on your remote control, displays the saved value directly on the LCD-screen. Do not unlock first.

IXIO-ST: INSTALLATION GUIDE

MOUNTING & WIRING



INFRARED SAFETY FIELD



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

Mounting

height

2.00 m

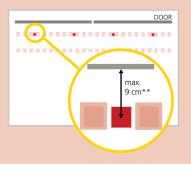
2.20 m

2.50 m 3.00 m

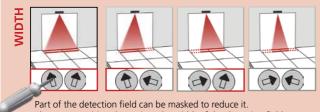
3.50 m



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.



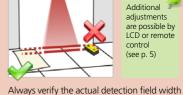
The arrow position determines the width of the detection field.

DIN 18650 BS 7036	3.50 m -3 m 2.50 m -2 m	EN 16005	3.50 m 3 m 2.50 m 2 m
	×		×

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

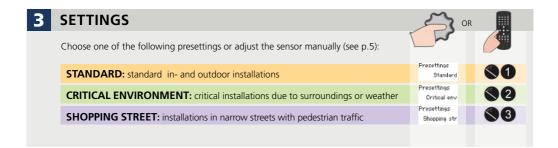
The full door width must be covered.

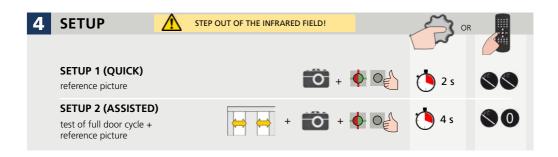
with a piece of paper and not the Spotfinder, which detects the whole emitted field.



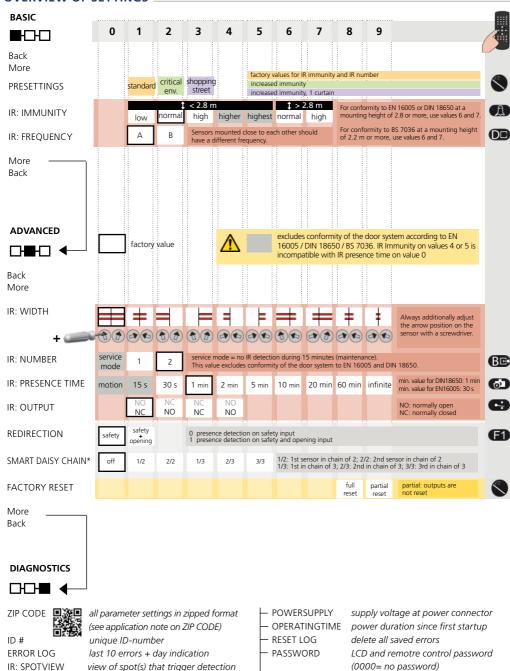
LCD or remote control (see p. 5)

Detection width 2.00 m 2.20 m 2.50 m d max d max d max = 2.5 md max = 3 m





OVERVIEW OF SETTINGS



LANGUAGE

- ADMIN

language of LCD-menu

enter code to access admin mode

IR: C1 ENERG

signal amplitude received on curtain 1

signal amplitude received on curtain 2

^{*} Setting in combination with an accessory. For more information, see user's guide of accessory

TROUBLESHOOTING _

E1 -	ORANGE LED flashes 1 x.	The sensor signals an internal fault.	1 Replace sensor.
E2 2	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.
ORANGE LED flashes 3 x.	The previous sensor in the daisy chain is faulty	1 Replace previous sensor in the chain	
	The SDC setting does not match with the real product position	1 Lock the SDC position setting	
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.	1 Slightly increase the angle of the IR-curtains.
		The sensor is disturbed by external elements.	1 Eliminate the cause of disturbance (lamps, rain cover, door controller housing properly grounded).
E8 -8	ORANGE LED flashes 8 x.	IR power emitter 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. 	
	The LED and the LCD-display are off.		1 Check wiring.
	The reaction of the door does not correspond to the LED-signal.		1 Check output configuration setting. 2 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







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.

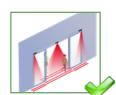
SAFETY



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.

₹.	
5	
2	
5	
ב ר	

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 (according to the applicable laws and regulations)
Temperature range:	-25°C to +55°C; 0-95% relative humidity, non condensing
Degree of protection:	IP54
Noise:	< 70 dB
Expected lifetime:	20 years







Detection mode:	Presence Typical response time: < 200 ms (max. 500 ms)
Technology:	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 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
Conformity:	EN 12978; EN 61000-6-2; EN 61000-6-3; EN ISO 13849-1 PL «c» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle); EN 62061; EN 61496-1 ESPE Type 2; EN 50581 EN 16005 Chapter 4.6.8; DIN 18650-1 Chapter 5.7.4; BS 7036-1 Chapter 8.1; EN 60825-1

Specifications are subject to changes without prior notice. All values are measured in specific conditions and in a temperature of 25°C.









BEA SA | LIEGE Science Park | ALLÉE DES NOISETIERS 5 - 4031 ANGLEUR [BELGIUM] | T +32 4 361 65 65 | F +32 4 361 28 58 | INFO@BEA.BE | WWW.BEASENSORS.COM





Angleur, September 2017 Pierre Gardier, authorized representative and responsible for technical documentation The complete declaration of conformity is available on our website.

This product should be disposed of separately from unsorted municipal waste