

IXIO-ST SIDE SCREEN



Download the BEA DECODER app
for a quick overview
of settings



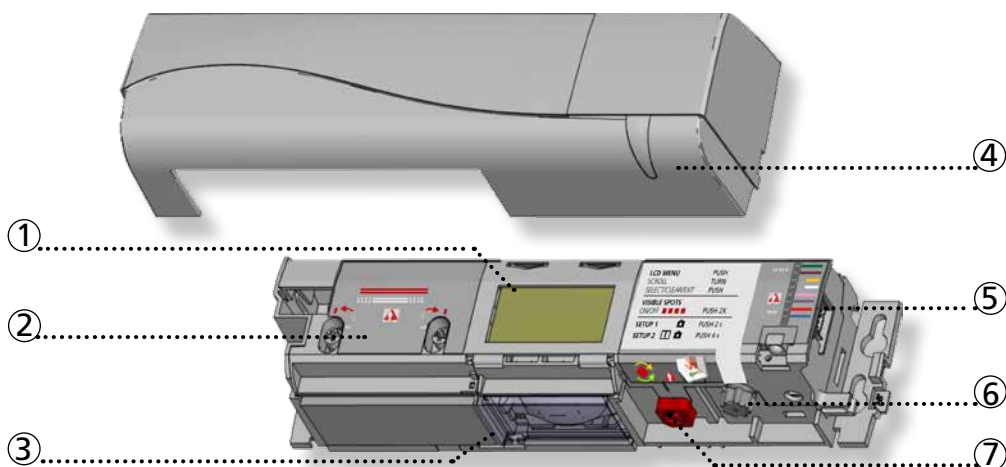
Side screen safety sensor
for automatic sliding doors

(according to EN 16005 and DIN 18650)

User's Guide for product version 0403 and higher

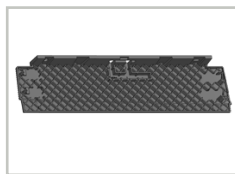
See product label for serial number

DESCRIPTION



- | | | | |
|----|-----------------------------|----|----------------------------------|
| 1. | LCD | 4. | cover |
| 2. | IR-curtain width adjustment | 5. | main connector |
| 3. | IR-lenses | 6. | main adjustment knob |
| | | 7. | IR-curtain angle adjustment knob |

ACCESSORIES



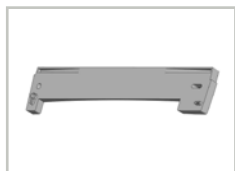
BA: Bracket accessory



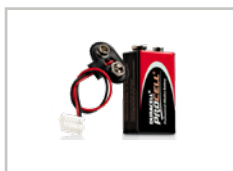
CA: Ceiling accessory



RA: Rain accessory



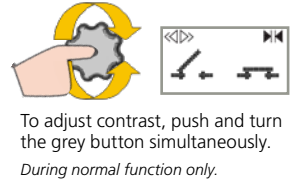
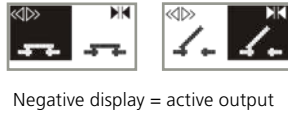
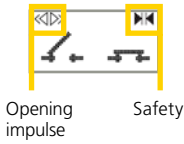
CDA: Curved door accessory



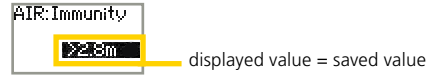
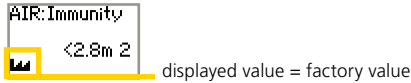
9 V battery

HOW TO USE THE LCD?

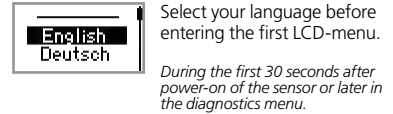
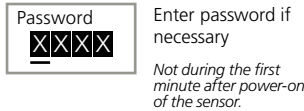
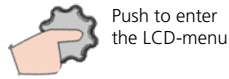
DISPLAY DURING NORMAL FUNCTIONING



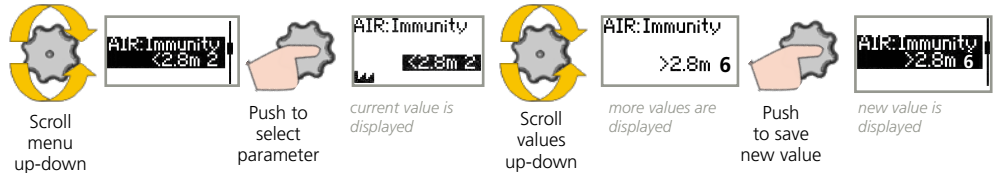
FACTORY VALUE VS. SAVED VALUE



NAVIGATING IN MENUS



CHANGING A VALUE



CHANGING A ZIP CODE



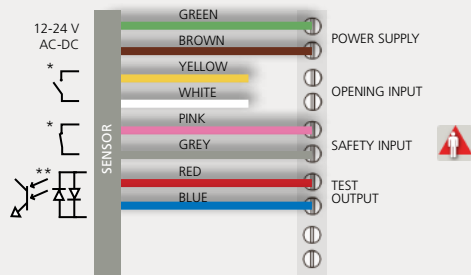
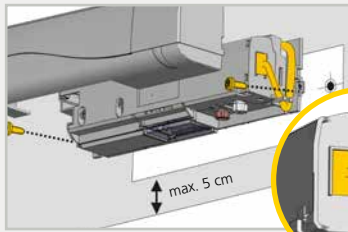
Validate the last digit in order to activate the new ZIP code:
- v = valid ZIP code, values will be changed accordingly
- x = invalid ZIP code, no values will be changed
- v/x = valid ZIP code, but from a different product.
Only available values will be changed.

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.

1 MOUNTING & WIRING



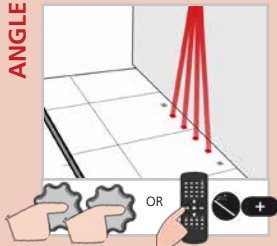
TIP!

Wiring is compatible with the IRIS.

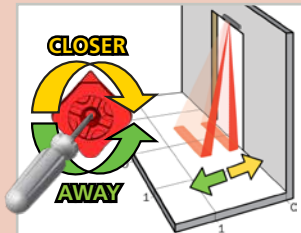
* Output status when sensor is operational
 ** For compliance with EN 16005 and DIN 18650, connection to door controller test output is required.

2 INFRARED SAFETY FIELD

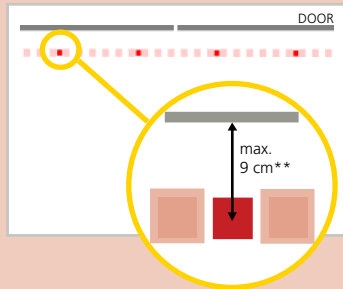
ANGLE



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

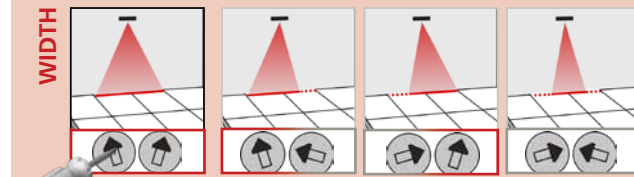


If necessary, adjust the IR-curtain angle (from -7° to 4° , default 0°).



* Visibility depends on external conditions. When spots are not visible, use the Spotfinder to locate the curtain.
 ** 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.

WIDTH



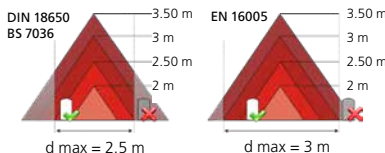
Part of the detection field can be masked to reduce it. The arrow position determines the width of the detection field.



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.

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.

3 SETUP



STEP OUT OF THE INFRARED FIELD!



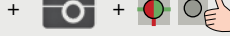
SETUP 1 (QUICK)

reference picture



SETUP 2 (ASSISTED)

test of full door cycle +
reference picture














TEST THE GOOD FUNCTIONING OF THE INSTALLATION BEFORE LEAVING THE PREMISES!

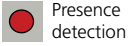
OVERVIEW OF SETTINGS

	0	1	2	3	4	5	6	7	8	9		
BASIC	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 10%; text-align: right;"> </div> <div style="width: 80%; text-align: center;"> </div> <div style="width: 10%; text-align: left;"> </div> </div>											
Back More												
IR: IMMUNITY	low		↑ < 2.8 m			↓ > 2.8 m		For conformity to EN 16005 or DIN 18650 at a mounting height of 2.8 or more, use values 6 and 7.				
IR: FREQUENCY	A	B	Sensors mounted close to each other should have a different frequency.					For conformity to BS 7036 at a mounting height of 2.2 m or more, use values 6 and 7.				
More Back												
	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 10%; text-align: right;"> </div> <div style="width: 80%; text-align: center;"> <p>excludes conformity of the door system according to EN 16005 / DIN 18650 / BS 7036. IR Immunity on values 4 or 5 is incompatible with IR presence time on value 0</p> </div> <div style="width: 10%; text-align: left;"> </div> </div>											
Back More												
IR: WIDTH										Always additionally adjust the arrow position on the sensor with a screwdriver.		
IR: NUMBER	service mode	1	service mode = no IR detection during 15 minutes (maintenance). This value excludes conformity of the door system to EN 16005 and DIN 18650.									
IR: PRESENCE TIME		30 s	1 min								min. value for DIN18650: 1 min min. value for EN16005: 30 s	
IR: OUTPUT	NO NC	NO NC	NO NC	NO NC							NO: normally open NC: normally closed	
REDIRECTION	safety	safety + opening	0 presence detection on safety input 1 presence detection on safety and opening input									
FACTORY RESET								full reset	partial reset	partial: outputs are not reset		
More Back												
DIAGNOSTICS	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 10%; text-align: right;"> </div> <div style="width: 80%; text-align: center;"> </div> <div style="width: 10%; text-align: left;"> </div> </div>											
ZIP CODE		all parameter settings in zipped format (see application note on ZIP CODE)									POWERSUPPLY	supply voltage at power connector
ID #		unique ID-number									OPERATINGTIME	power duration since first startup
ERROR LOG		last 10 errors + day indication									RESET LOG	delete all saved errors
IR: SPOTVIEW		view of spot(s) that trigger detection									PASSWORD	LCD and remote control password (0000= no password)
IR: C1 ENERG		signal amplitude received on curtain 1									LANGUAGE	language of LCD-menu
IR: C2 ENERG		signal amplitude received on curtain 2									ADMIN	enter code to access admin mode

TROUBLESHOOTING

E1		ORANGE LED flashes 1 x.	The sensor signals an internal fault.	<ol style="list-style-type: none"> 1 Replace sensor.
E2		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		ORANGE LED flashes 4 x.	The sensor receives not enough IR-energy.	<ol style="list-style-type: none"> 1 Decrease the angle of the IR-curtain. 2 Increase the IR-immunity filter (values >2.8 m).
E5		ORANGE LED flashes 5 x.	The sensor receives too much IR-energy.	<ol style="list-style-type: none"> 1 Slightly increase the angle of the IR-curtain.
E8		ORANGE LED flashes 8 x.	IR power emitter is faulty.	<ol style="list-style-type: none"> 1 Eliminate the cause of disturbance (lamps, rain cover, door controller housing properly grounded).
		ORANGE LED is on.	The sensor encounters a memory problem.	<ol style="list-style-type: none"> 1 Replace sensor.
		RED LED flashes quickly after an assisted setup.	The sensor sees the door during the assisted setup.	<ol style="list-style-type: none"> 1 Cut and restore power supply. 2 If orange LED lights up again, replace sensor.
		RED LED lights up sporadically.	The sensor vibrates.	<ol style="list-style-type: none"> 1 Move the IR-curtain away from the door. 2 Install the sensor as close to the door as possible. If needed, use a bracket accessory.
			The sensor sees the door.	<ol style="list-style-type: none"> 3 Launch a new assisted setup.
			The sensor is disturbed by external conditions.	<ol style="list-style-type: none"> 1 Check if the sensor is fastened firmly. 2 Check position of cable and cover.
			The sensor is disturbed by external conditions.	<ol style="list-style-type: none"> 1 Launch an assisted setup and adjust the IR angle.
		The LED and the LCD-display are off.		<ol style="list-style-type: none"> 1 Increase the IR-immunity filter to value 3.
		The reaction of the door does not correspond to the LED-signal.		<ol style="list-style-type: none"> 1 Check wiring.
		The LCD or remote control does not react.	The sensor is protected by a password.	<ol style="list-style-type: none"> 1 Check output configuration setting. 2 Check wiring.
				<ol style="list-style-type: none"> 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.

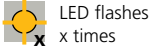
LED-SIGNAL



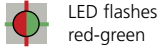
Presence detection



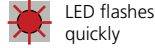
LED flashes



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

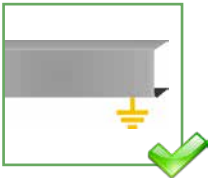


It is recommended to clean the optical parts at least once a year or more if required due to environmental conditions.



Do not use aggressive products to clean the optical parts.

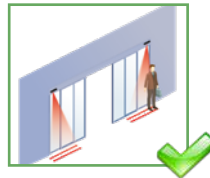
SAFETY



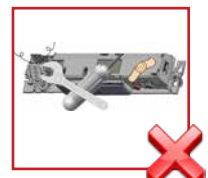
The door control unit and the door cover profile must be correctly earthed.



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 (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: 1
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
Norm 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 50581; EN 61496-1 ESPE Type 2; EN 16005 Chapter 4.6.8; DIN 18650-1 Chapter 5.7.4; BS 7036-1 Chapter 8.1

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 NOISIERS 5 - 4031 ANGLEUR [BELGIUM] | T +32 4 361 65 65 | F +32 4 361 28 58 | INFO@BEA.BE | WWW.BEA-SENSORS.COM



BEA hereby declares that the IXIO-ST SIDE SCREEN is in conformity with the basic requirements and the other relevant provisions of the directives 2014/30/EU, 2006/42/EC and 2011/65/EU.
Notified Body for EC-type inspection: 0044 - TÜV NORD CERT GmbH, Langemarckstr. 20, D-45141 Essen
EC-type examination certificate number: 44 205 13089612
Angleur, September 2017 Pierre Gardier, authorized representative and responsible for technical documentation
The complete declaration of conformity is available on our website.



Only for EC countries: According to the European Guideline 2012/19/EU for Waste Electrical and Electronic Equipment (WEEE)