



Download the BEA DECODER app
for a quick overview
of settings



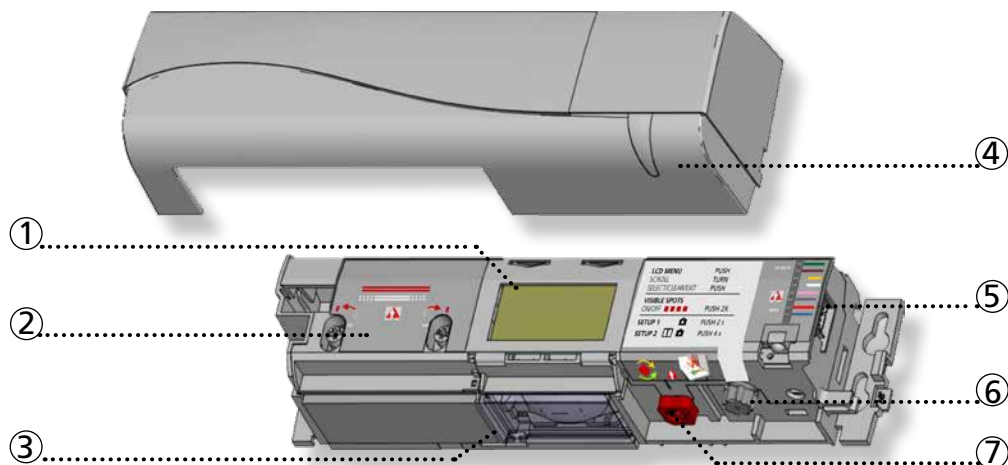
IXIO-ST

SAFETY SENSOR FOR AUTOMATIC SLIDING DOORS

(according to EN 16005 and DIN 18650)

User's Guide for software version 0501 and higher
(refer to tracking label on product)

DESCRIPTION



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

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

ACCESSORIES



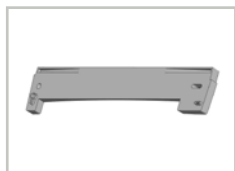
BA: Bracket accessory



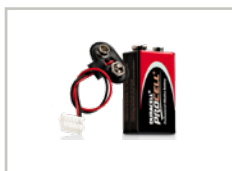
CA: Ceiling accessory



RA: Rain accessory



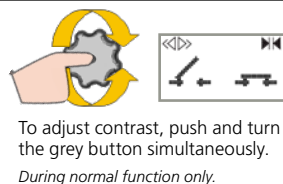
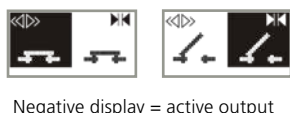
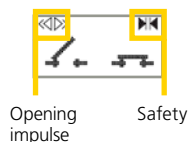
CDA: Curved door accessory



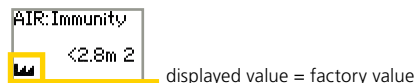
9 V battery

HOW TO USE THE LCD?

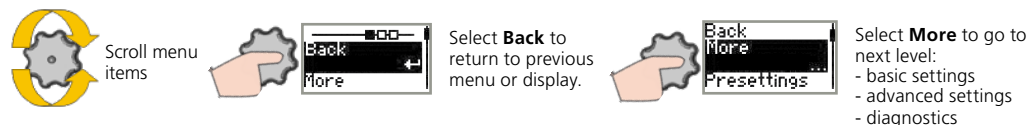
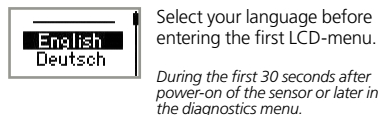
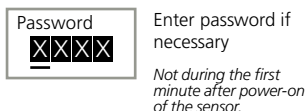
DISPLAY DURING NORMAL FUNCTIONING



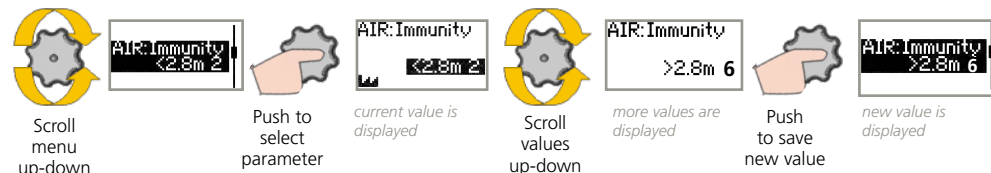
FACTORY VALUE VS. SAVED VALUE



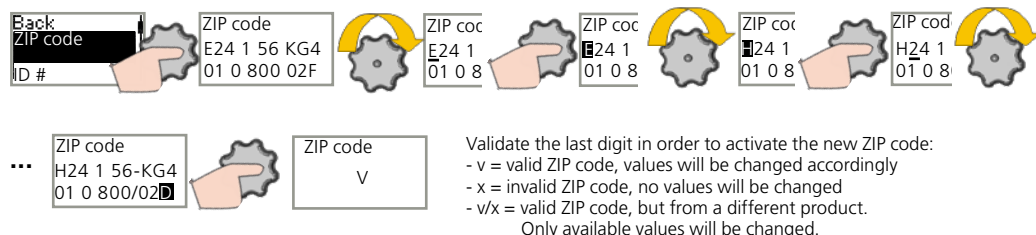
NAVIGATING IN MENUS



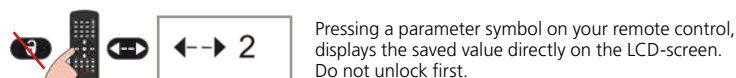
CHANGING A VALUE



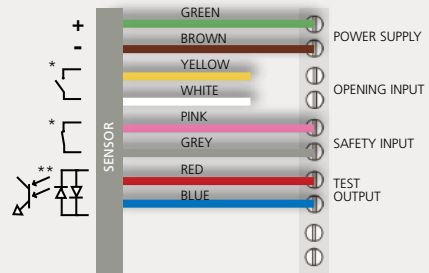
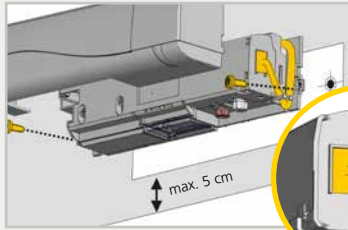
CHANGING A ZIP CODE



VALUE CHECK WITH REMOTE CONTROL



1 MOUNTING & WIRING



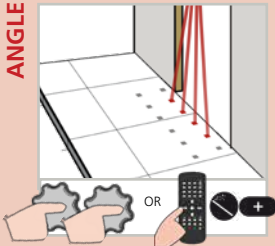
TIP!

Wiring is compatible with the IRIS.

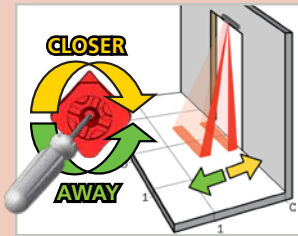
- * Depending on OUTPUT CONFIGURATION settings
- ** For compliance with EN 16005 and DIN 18650, connection to door controller test output is required.

2 INFRARED SAFETY FIELD

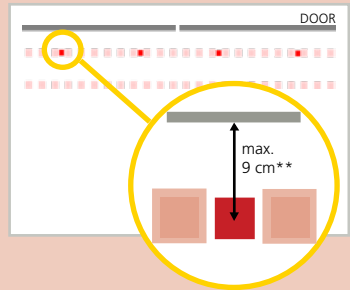
ANGLE



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

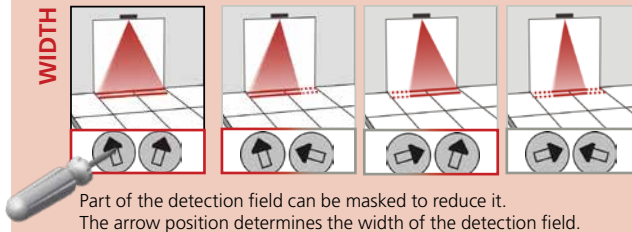


If necessary, adjust the IR-curtain angle (from -7° to 4° , default 0°).



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

WIDTH



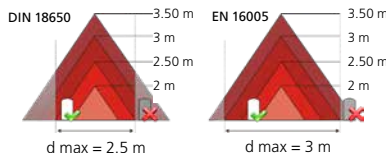
Part of the detection field can be masked to reduce it. The arrow position determines the width of the detection field.



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.

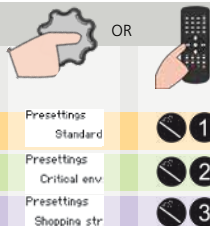
3 SETTINGS

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

STANDARD: standard in- and outdoor installations

CRITICAL ENVIRONMENT: critical installations due to surroundings or weather

SHOPPING STREET: installations in narrow streets with pedestrian traffic



4 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!

BASIC



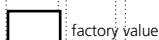
PRESETTINGS

IR: IMMUNITY

IR: FREQUENCY

More
Back

ADVANCED



Back
More

IR: WIDTH



IR: NUMBER

IR: PRESENCE TIME

IR: OUTPUT

REDIRECTION

SMART DAISY CHAIN*

FACTORY RESET

More
Back

DIAGNOSTICS



ZIP CODE



*all parameter settings in zipped format
(see application note on ZIP CODE)*

ID #

unique ID-number

ERROR LOG

last 10 errors + day indication

IR: SPOTVIEW

view of spot(s) that trigger detection

IR: C1 ENERG

signal amplitude received on curtain 1

IR: C2 ENERG

signal amplitude received on curtain 2

POWERSUPPLY

supply voltage at power connector

- OPERATINGTIME

power duration since first startup

RESET LOG

delete all saved errors

PASSWORD

LCD and remote control password
(0000= no password)












- LANGUAGE

language of LCD-menu

- ADMIN

enter code to access admin mode

TROUBLESHOOTING

E1		ORANGE LED flashes 1 x.	The sensor signals an internal fault.	1 Replace sensor.
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.
E3		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		ORANGE LED flashes 4 x.	The sensor receives not enough IR-energy.	1 Decrease the angle of the IR-curtains. 2 Increase the IR-immunity filter (values >2.8 m). 3 Deactivate 1 curtain.
E5		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		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.	1 Move the IR-curtains away from the door. 2 Install the sensor as close to the door as possible. If needed, use a bracket accessory. 3 Launch a new assisted setup.
		RED LED lights up sporadically.	The sensor vibrates.	1 Check if the sensor is fastened firmly. 2 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.	1 Increase the IR-immunity filter to value 3. 2 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



Presence
detection



LED flashes



LED flashes
x times



LED flashes
red-green



LED flashes
quickly

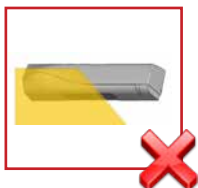


LED is off

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

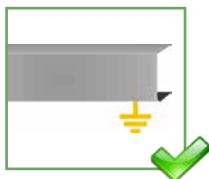


It is recommended to clean the optical parts at least once a year or more if required due to environmental conditions.



Do not use aggressive products to clean the optical parts.

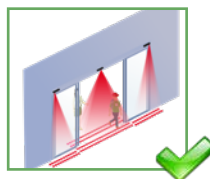
SAFETY



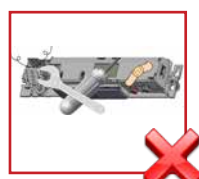
The door control unit and the door cover profile must be correctly earthed.



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%
Power consumption:	< 2.5 W
Mounting height:	2 m to 3.5 m
Temperature range:	-25°C to +55°C; 0-95% relative humidity, non condensing
Degree of protection:	IP54
Noise:	< 70 dB
Expected lifetime:	20 years

* The Equipment must be powered by a SELV limited power source ensuring double insulation between primary voltages and the Equipment supply. The supply current should be limited to max 3A.



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
Safety standards:	EN 12978 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 16005 (protective devices) DIN 18650 (protective devices)

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



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BEA hereby declares that the IXIO-ST is in conformity with European directives 2014/30/EU (EMC), 2006/42/EC (Machinery) & 2011/65/EU (RoHS).
Notified Body for EC-type inspection: 0044 - TÜV NORD CERT GmbH, Langemarkstr. 20, D-45141 Essen
EC-type examination certificate number: 44 205 13089612
Angleur, february 2021 Estelle GRAAS
The complete declaration of conformity is available on our website.
This product should be disposed of separately from unsorted municipal waste