IXIO-ST SIDE SCREEN

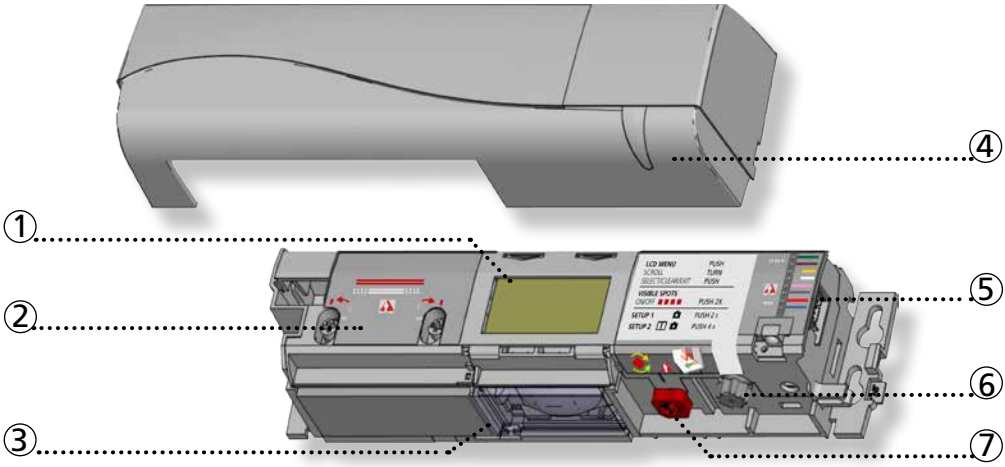
Download the BEA DECODER app
for a quick overview
of settings

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

ENGLISH

DESCRIPTION



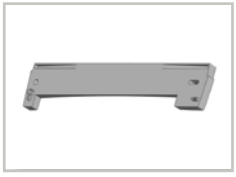
1. LCD
2. IR-curtain width adjustment
3. IR-lenses
4. cover
5. main connector
6. main adjustment knob
7. IR-curtain angle adjustment knob

ACCESSORIES


BA: Bracket accessory


CA: Ceiling accessory

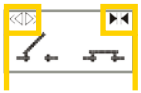

RA: Rain accessory


CDA: Curved door accessory

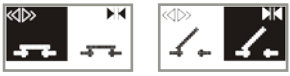

9 V battery

HOW TO USE THE LCD?

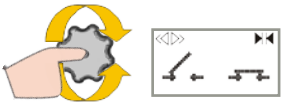
DISPLAY DURING NORMAL FUNCTIONING



Opening impulse — Safety



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 items

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

current value is displayed

Scroll values up-down

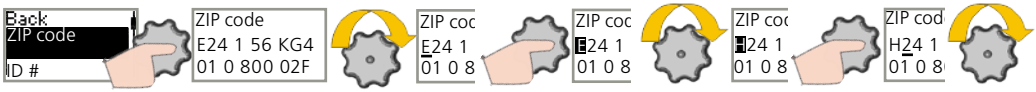
more values are displayed

Push to save new value

new value is displayed

CHANGING A ZIP CODE

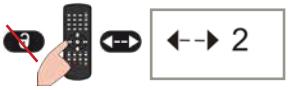
See application note on ZIP CODE



...

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

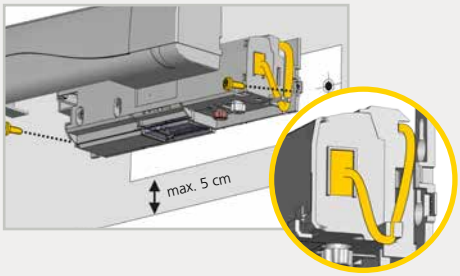


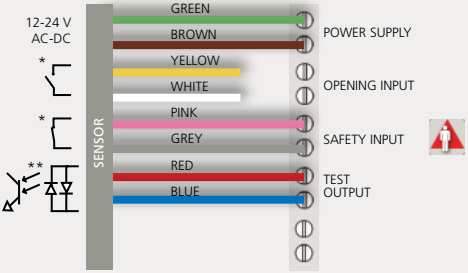
Pressing a parameter symbol on your remote control, displays the saved value directly on the LCD-screen. Do not unlock first.

IXIO-ST SIDE SCREEN: INSTALLATION GUIDE

ENGLISH

1 MOUNTING & WIRING



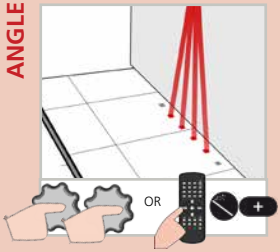


TIP!
Wiring is compatible with the IRIS.

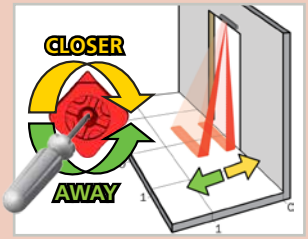
* Output status when sensor is operational
** For compliance with EN 16005 and DIN 18650, connection to door controller test output is required.

2 INFRARED SAFETY FIELD

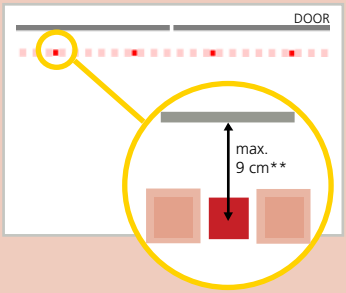
ANGLE



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

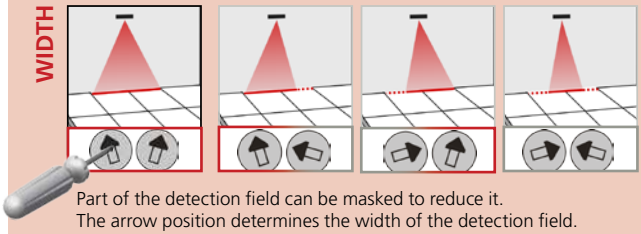


If necessary, adjust the IR-curtain angle (from -7° to 4°, default 0°).



* 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

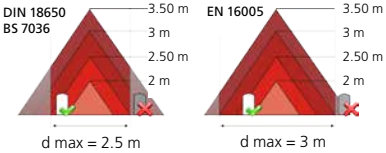


Part of the detection field can be masked to reduce it.
The arrow position determines the width of the detection field.

Always verify the actual detection field width with a piece of paper and not the Spotfinder, which detects the whole emitted field.

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

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

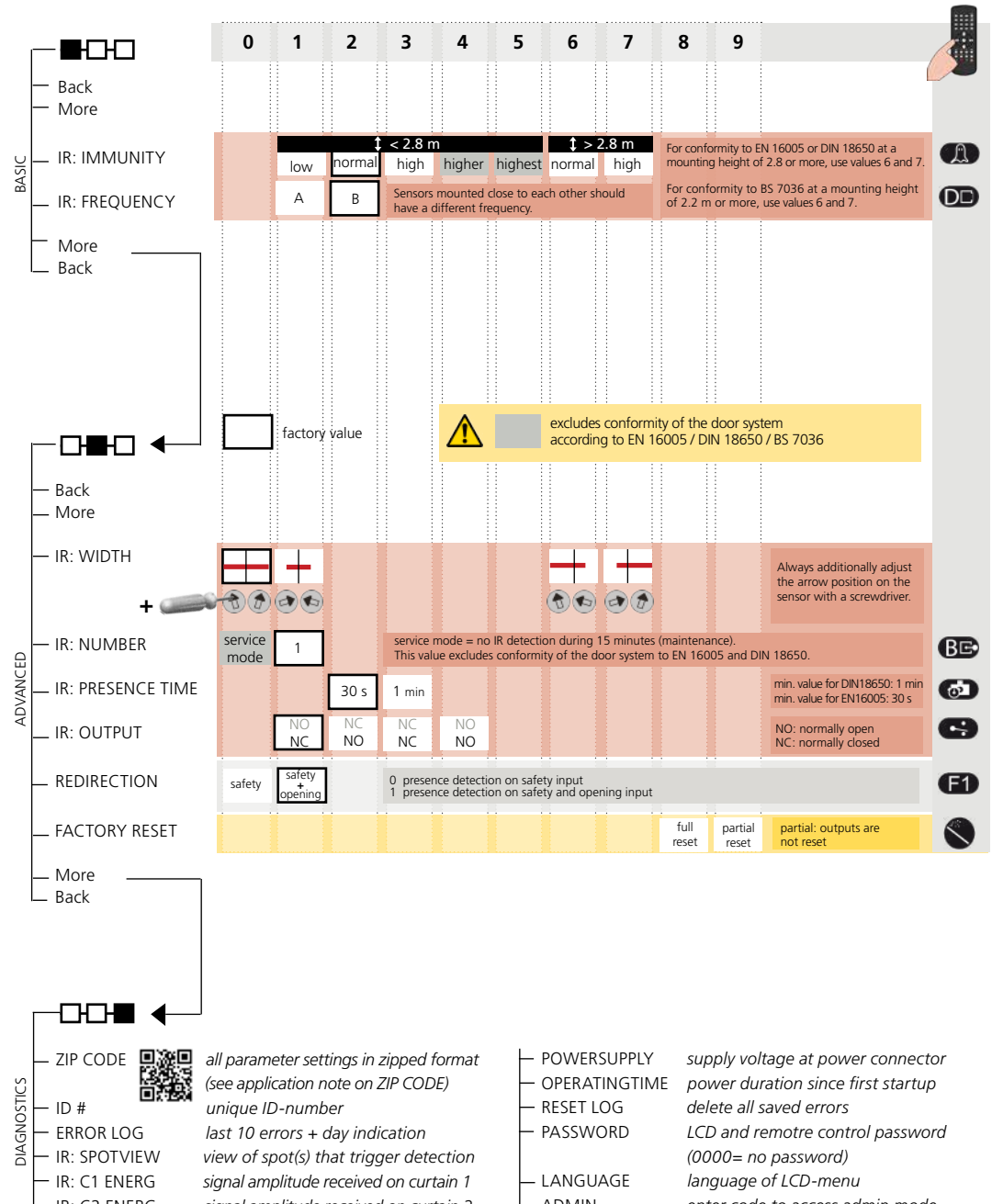
STEP OUT OF THE INFRARED FIELD!

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



all parameter settings in zipped format (see application note on ZIP CODE)
unique ID-number
last 10 errors + day indication
view of spot(s) that trigger detection
signal amplitude received on curtain 1
signal amplitude received on curtain 2

supply voltage at power connector
power duration since first startup
delete all saved errors
LCD and remotre control password (0000= no password)
language of LCD-menu
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.
E4 	ORANGE LED flashes 4 x.	The sensor receives not enough IR-energy.	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.	1 Slightly increase the angle of the IR-curtain. 2 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).
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-curtain 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.
	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

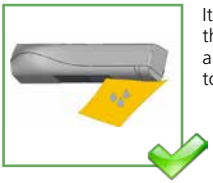
The sensor should be fixed firmly to avoid extreme vibrations.

Do not cover the sensor.

Avoid moving objects and light sources in the detection field.

Avoid highly reflective objects in the infrared field.

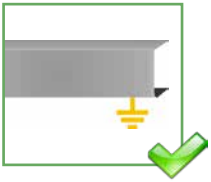
MAINTENANCE



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

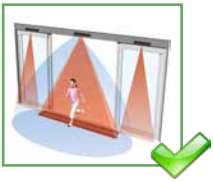
Do not use aggressive products to clean the optical parts.

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% (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

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 measured in specific conditions.

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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 12 405836-001
Angleur, April 2016 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)