JOIN OUR COMMUNITY!

IXIO-DT1

OPENING & SAFETY SENSOR FOR AUTOMATIC SLIDING DOORS

(according to EN 16005 and DIN 18650)

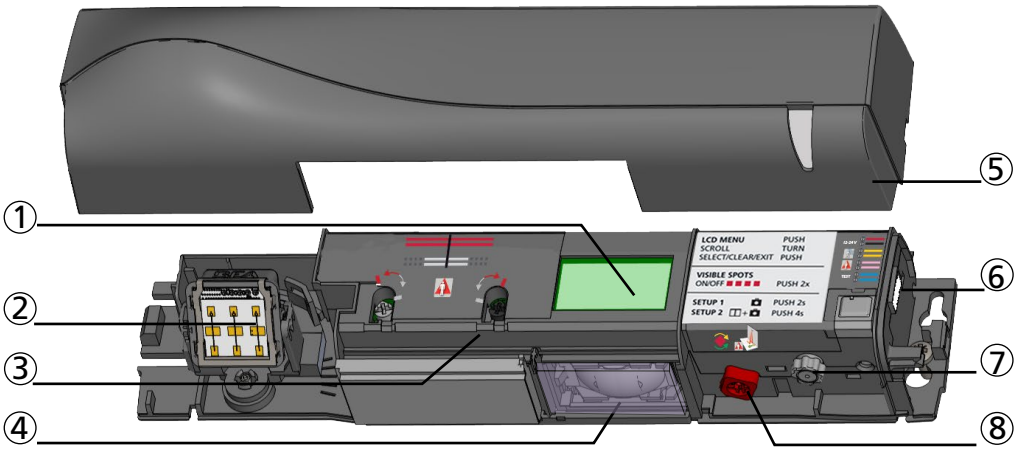
User's Guide for software version 0604 and higher
(refer to tracking label on product)

ENGLISH

Download the BEA DECODER app for a quick overview of settings

ARTEK INSIDE

DESCRIPTION

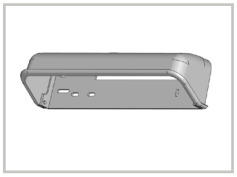


1. LCD
2. radar antenna
3. IR-curtain width adjustment
4. IR-lenses
5. cover
6. main connector
7. main adjustment knob
8. IR-curtain angle adjustment knob

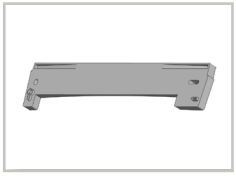
ACCESSORIES

BA: Bracket accessory

CA: Ceiling accessory



RA: Rain accessory



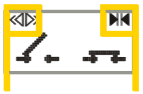
CDA: Curved door accessory

9 V battery

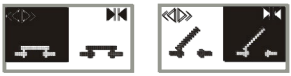
Smart Daisy Chain hub

HOW TO USE THE LCD?

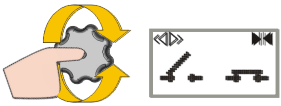
DISPLAY DURING NORMAL FUNCTIONING



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

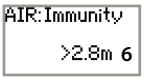
CHANGING A VALUE

Scroll menu up-down

Push to select parameter

current value is displayed

Scroll values up-down



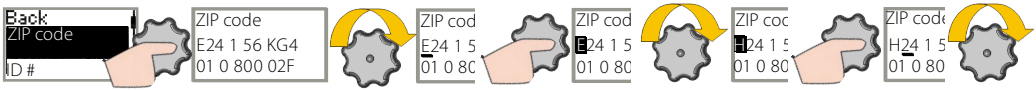
more values are displayed

Push to save new value

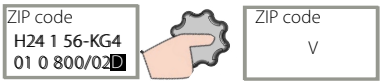
new value is displayed

CHANGING A ZIP CODE

See application note on ZIP CODE



...



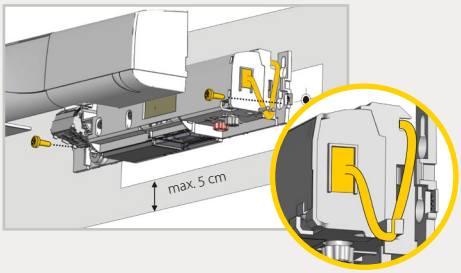
Validate the last digit in order to activate the new ZIP code:
- **v = valid ZIP code, values will be changed accordingly**
- **x = invalid ZIP code, no values will be changed**
- **v/x = valid ZIP code, but from a different product. Only available values will be changed.**

VALUE CHECK WITH REMOTE CONTROL

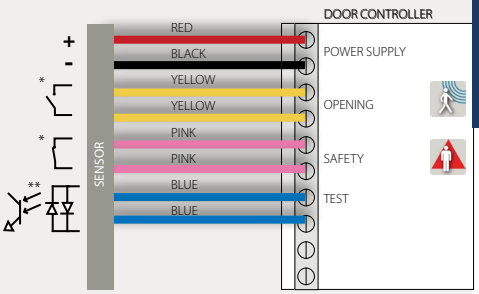
Pressing a parameter symbol on your remote control, displays the saved value directly on the LCD-screen. Do not unlock first.

ENGLISH

1 MOUNTING & WIRING



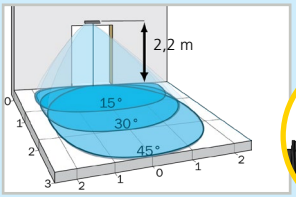
Fixation is compatible with the ACTIV8.
Mount the sensor securely.



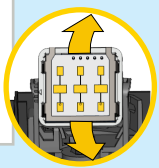
* Depending on OUTPUT CONFIGURATION settings
** For compliance with EN 16005 and DIN 18650, connection to door controller test output is required.

2 RADAR OPENING IMPULSE FIELD

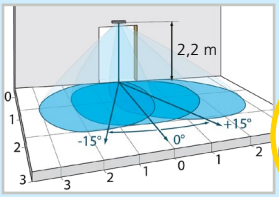
ANGLE



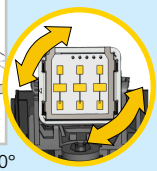
field size: 9
immunity: 2



from 15° to 45°, default 30 °

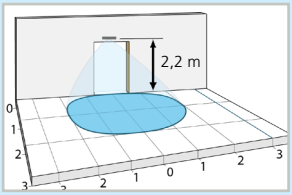


field size: 9
immunity: 2



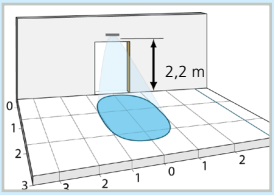
from -15° to 15°, default 0°

WIDTH



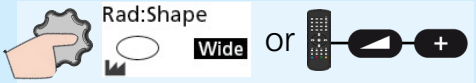
WIDE : 4 m x 2 m

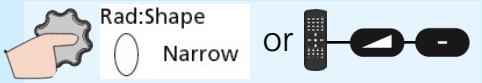
field size: 9
immunity: 2



NARROW : 2 m x 2.5 m

field size: 9
immunity: 2

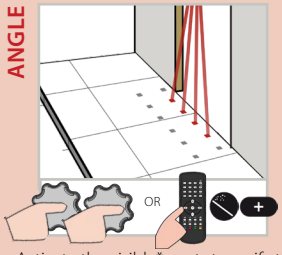




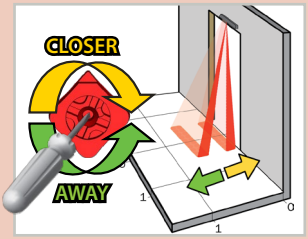
The size of the detection field varies according to the mounting height of the sensor.

3 INFRARED SAFETY FIELD

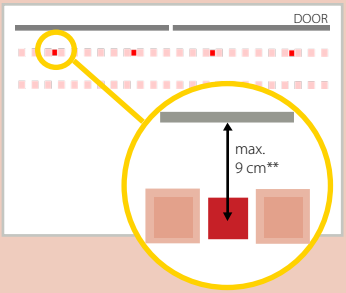
ANGLE



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

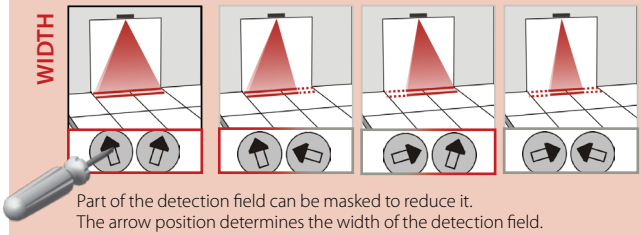


If necessary, adjust the IR-curtain angle (from -7° to 4°, default 0°).

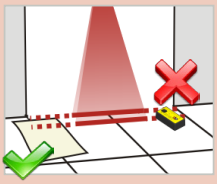


* Visibility depends on external conditions. When spots are not visible, use the Spotfinder to locate the curtains.
** The distance between the inner curtain of the inside door sensor and the inner curtain of the outside door sensor should always be smaller than 20 cm. The distance to the door leaf depends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

WIDTH



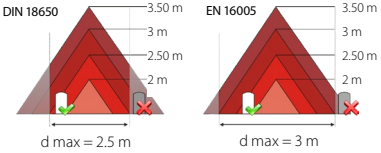
Part of the detection field can be masked to reduce it.
The arrow position determines the width of the detection field.



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.

4 SETTINGS

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

STANDARD: standard in- and outdoor installations — Presettings Standard — 1

CRITICAL ENVIRONMENT: critical installations due to surroundings or weather — Presettings Critical env. — 2

SHOPPING STREET: installations in narrow streets with pedestrian traffic — Presettings Shopping str. — 3

5 SETUP

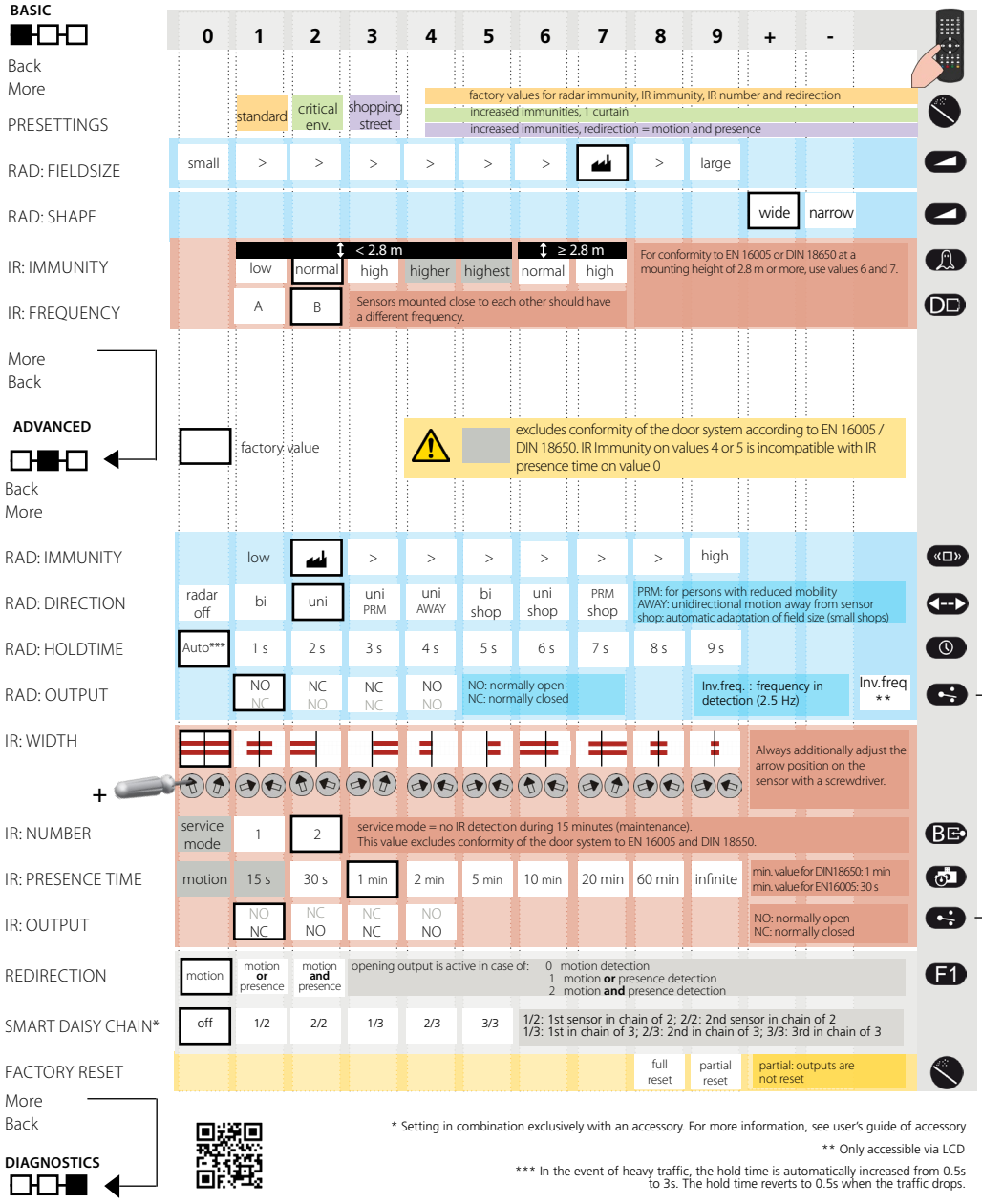
STEP OUT OF THE INFRARED FIELD!

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



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

** Only accessible via LCD

*** In the event of heavy traffic, the hold time is automatically increased from 0.5s to 3s. The hold time reverts to 0.5s when the traffic drops.

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.
	GREEN LED lights up sporadically.	The sensor is disturbed by rain and/or leaves.	1 Select presetting 2 or 3. 2 Increase radar-immunity filter.
		Ghosting created by door movement.	1 Change radar field angle.
		The sensor vibrates.	1 Check if the sensor and door cover is fastened firmly. 2 Check position of cable and cover.
		The sensor sees the door or other moving objects.	1 Remove the objects if possible. 2 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.		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

Motion detection

Presence detection

LED flashes

LED flashes x times

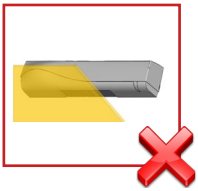
LED flashes red-green

LED flashes quickly

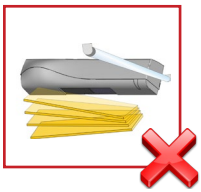
LED is off

INSTALLATION

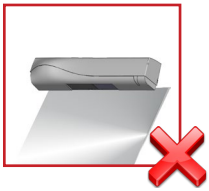
The sensor should be fixed firmly to avoid extreme vibrations.



Do not cover the sensor.

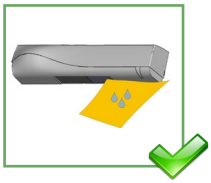


Avoid moving objects and light sources in the detection field.

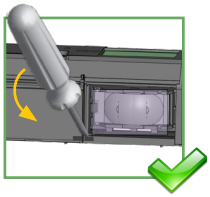


Avoid highly reflective objects in the infrared field.

MAINTENANCE



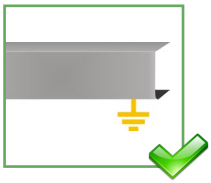
It is recommended to clean the optical parts at least once a year or more if required due to environmental conditions.



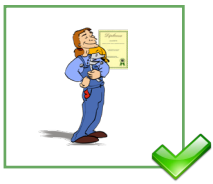
For complete cleaning, remove both windows by inserting a screwdriver into the notches located between the two windows.

Do not use aggressive products to clean the optical parts.

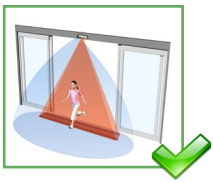
SAFETY



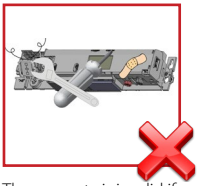
The door control unit and the door cover profile must be correctly earthed.



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 sensor cannot be used for purposes other than its intended use.
- The manufacturer of the door system incorporating the sensor is responsible for compliance of the system to applicable national and international regulations and safety standards.
- The installer must read, understand and follow the instructions given in this manual. Improper installation can result in improper sensor operation.
- The manufacturer of the sensor cannot be held responsible for injury or damage resulting from incorrect use, installation or inappropriate adjustment of the sensor.

TECHNICAL SPECIFICATIONS

Supply voltage*:	12 V - 24 V AC +/-10% (50 - 60 Hz) ; 12 V - 30 V DC +/-10%
Power consumption:	< 1.5W
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 (IEC/EN 60529)
Noise:	< 70 dB

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 DC/ 30 V AC In inverted frequency mode: pulsed signal in detection (f = 2.5 Hz)	Solid-state-relay (potential and polarity free) Max. contact current: 100 mA Max. contact voltage: 42 V DC/ 30 V AC 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 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 18650-1 (protective devices) EN 12978

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

*External electrical sources must be within specified voltages and ensure double insulation from primary voltages.

EN 16005 · DIN 18650 · TÜVNORD Baumuster geprüft

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BEA hereby declares that this product is in conformity with European directives :
2014/53/EU (RED), 2006/42/EC (Machinery), 2011/65/EU (RoHS).
EC-type examination certificate from TÜV NORD CERT : 44 205 13089612.
The complete declaration of conformity is available on our website.

This product should be disposed of separately from unsorted municipal waste.

PLEASE KEEP FOR FURTHER USE - DESIGNED FOR COLOUR PRINTING

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