

Download the BEA DECODER app for a quick overview of settings





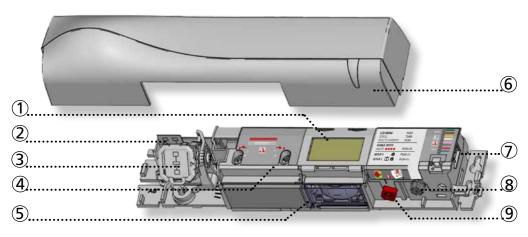
IXIO-DT3

OPENING & SAFETY SENSOR FOR AUTOMATIC SLIDING DOORS

(according to EN 16005 and DIN 18650, including emergency exits)

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

DESCRIPTION



- ICD
- radar antenna (narrow field)
- 3. radar antenna (wide field)
- IR-curtain width adjustment
- 5. IR-lenses

- 6. cover
- 7. main connector
- 8. main adjustment knob
- 9. IR-curtain angle adjustment knob

ACCESSORIES .



BA: Bracket accessory



CA: Ceiling accessory



RA: Rain accessory



CDA: Curved door accessory



Retrofit interface



Door bell + interface



Smart Daisy Chain hub



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







Push to select parameter



current value is



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 .



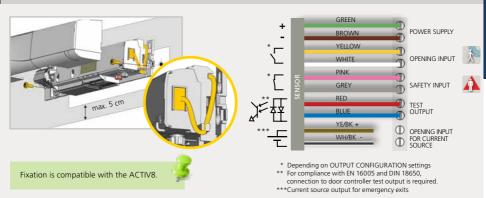




Pressing a parameter symbol on your remote control, displays the saved value directly on the LCD-screen. Do not unlock first.

IXIO-DT3: INSTALLATION GUIDE

MOUNTING & WIRING





RELAY OUTPUT

NOT for emergency exits

NO: normally open

NC: normally closed

ad:Output

Rad:Output

Rad:Output

 $\Delta\Delta\Delta\Delta$

Fréqueñcy Rad:Output

 \mathcal{M}



OR



FREQUENCY OUTPUT

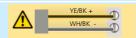
for emergency exits

INVERTED FREQUENCY OUTPUT

for specific door operators (NOT for emergency exits)

CURRENT SOURCE OUTPUT

for emergency exits

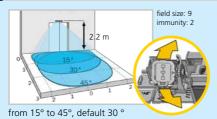


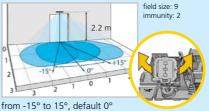


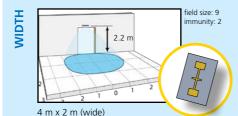


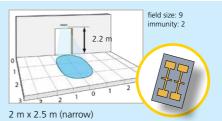


RADAR OPENING IMPULSE FIELD

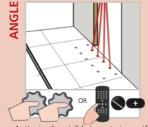








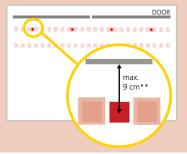
4 INFRARED SAFETY FIELD



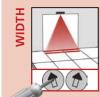
Activate the visible* spots to verify the position of the IR-curtain.



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



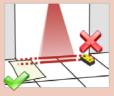
* Visibility-depends on external conditions. When spots are not visible, use the Spotfinder to locate the curtains
** The distance between the inner curtain of the inside door sensor and the inner curtain of the outside door sensor should
always be smaller than 20 cm. The distance to the door leaf depends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











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

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.







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.

5 SETTINGS

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

OR

Presettings
Standard

Presettings

CRITICAL ENVIRONMENT: critical installations due to surroundings or weather

Presettings Shopping str

esettings
Critical env

SHOPPING STREET: installations in narrow streets with pedestrian traffic

6 SETUP



STANDARD: standard in- and outdoor installations

STEP OUT OF THE INFRARED FIELD!







reference picture







SETUP 2 (ASSISTED)

test of full door cycle + reference picture





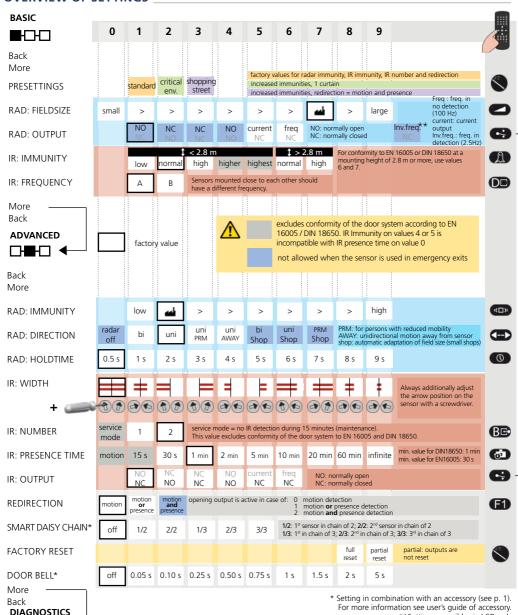








OVERVIEW OF SETTINGS



ZIP CODE



ID# **ERROR LOG** IR: SPOTVIEW IR: C1 ENERG IR: C2 FNFRG

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

POWERSUPPLY OPERATINGTIME RESET LOG PASSWORD

 LANGUAGE ADMIN

supply voltage at power connector power duration since first startup delete all saved errors LCD and remotre control password (0000= no password)

**Setting accessible via LCD only

enter code to access admin mode

language of LCD-menu

E1 -1	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.	1 2	Check power supply (in the diagnostics menu of the LCD). Check wiring.
E3 -3	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.	1 2 3	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).
E6 6	ORANGE LED flashes 6 x.	Faulty radar sensor output	1	Replace sensor.
E7 \(\frac{1}{7} \)	ORANGE LED flashes 7 x.	The internal test of the radar is disturbed.	1 2 3	Launch a quick setup: Solution Change radar field angle or antenna. If orange LED flashes again, replace sensor.
E8 -8	ORANGE LED flashes 8 x.	IR power emitter is faulty.	1	Replace sensor.
E9 9	ORANGE LED flashes 9 x.	Internal reference of the radar is faulty.	1	Replace sensor.
	ORANGE LED is on.	The sensor encounters a memory problem.	1 2	Cut and restore power supply. 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 2	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.	1 2	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.	1 2	Increase the IR-immunity filter to value 3. Select presetting 2 or 3.
	GREEN LED lights up sporadically.	The sensor is disturbed by rain and/or leaves.	1 2	Select presetting 2 or 3. Increase radar-immunity filter.
		Ghosting created by door movement.	1	Change radar field angle.
		The sensor vibrates.	1 2	Check if the sensor and door cover is fastened firmly. Check position of cable and cover.
		The sensor sees the door or other moving objects.	1 2	Remove the objects if possible. 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 2	Check output configuration setting. 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





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

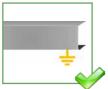


It is recommended to clean the optical parts at least once a year or more if required due to environmental conditions.



Do not use aggressive products to clean the optical parts.

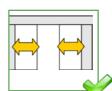
SAFETY



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.

Noise:

Expected lifetime:

A Halma company

TECHNICAL SPECIFICATIONS							
		* The Equipment must be powered by a SELV limited power source ensuring double insulation between primary voltages and the Equipment supply. The					
Supply voltage *:	12 V - 24 V AC +/-10% ; 12 V - 30 V DC +/-10%						
Power consumption:	< 2.5 W	supply current should be limited to max 3A.					
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						

		<u> </u>
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 AC/DC - in switching mode: NO/NC - in frequency mode: pulsed signal in no detection (f = 100 Hz +/- 10%) - in inverted frequency mode: pulsed signal in detection (f = 2.5 Hz) Galvanically isolated current source No detection: current source ON Open circuit voltage: 6.5 V Output voltage available at 10 mA: 3 V min. Typical load: up to 3 optocouplers in series Detection: current source OFF Open-circuit remained voltage: < 500 mV	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 ISO 13849-1 PL «d» CAT. 2 EN 16005 (emergency exits) DIN 18650-1 (emergency exits) AutSchR (only applicable for radar output in frequency mode and current source output)	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		







< 70 dB

20 years

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All values measured in specific conditions and with a temperature of 25°C.

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BEA hereby declares that the IXIO-DT3 is in conformity with the European directives 2014/53/EU (RED), 2006/42/EC (Machinery) and 2011/65/EU (ROHS).

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, 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

