

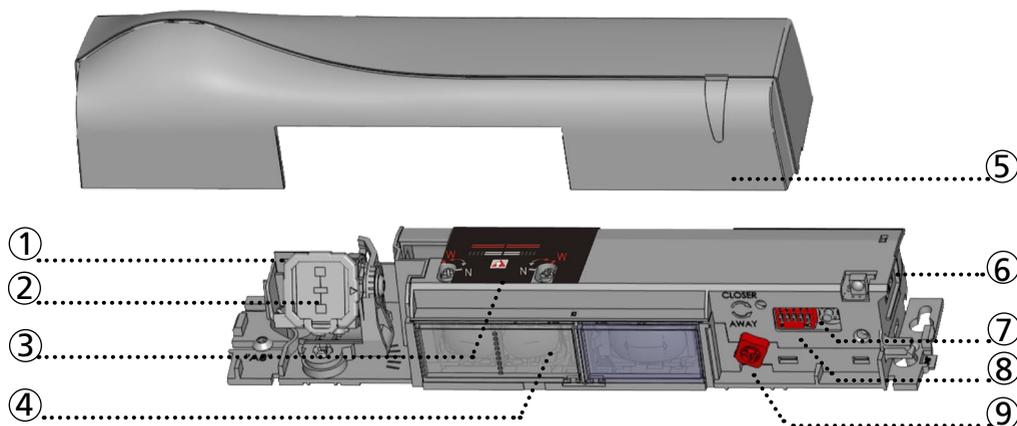
IXIO-D CAN

OPENING & SAFETY SENSOR FOR AUTOMATIC SLIDING DOORS

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

User's Guide for product version 0202 and higher
See product label for serial number

DESCRIPTION



- | | | | |
|----|------------------------------|----|----------------------------------|
| 1. | radar antenna (narrow field) | 6. | main connectors |
| 2. | radar antenna (wide field) | 7. | push button |
| 3. | IR-curtain width adjustment | 8. | DIP-switch |
| 4. | IR-lenses | 9. | IR-curtain angle adjustment knob |
| 5. | cover | | |

ACCESSORIES



BA: Bracket accessory



CA: Ceiling accessory



RA: Rain accessory



BEA Remote control



CDA: Curved door accessory

LED-SIGNAL



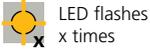
Motion detection



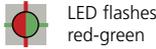
Presence detection



LED flashes



LED flashes
x times



LED flashes
red-green



LED flashes
quickly

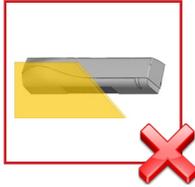


LED is off

INSTALLATION



The sensor should be fixed firmly to avoid extreme vibrations.



Do not cover the sensor.

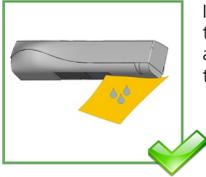


Avoid moving objects and light sources in the detection field.



Avoid highly reflective objects in the infrared field.

MAINTENANCE

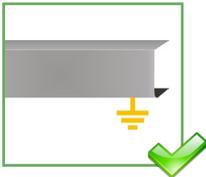


It is recommended to clean the optical parts at least once a year or more if required due to environmental conditions.



Do not use aggressive products to clean the optical parts.

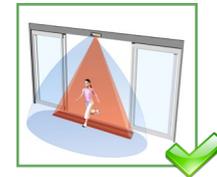
SAFETY



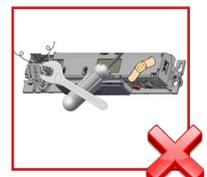
The door control unit and the door cover profile must be correctly earthed.



Only trained and qualified personnel may install and setup the sensor.



Always test the good functioning of the installation before leaving the premises.



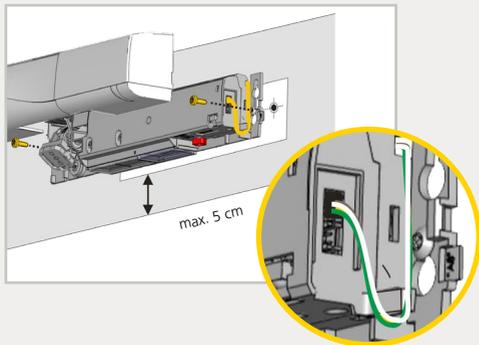
The warranty is invalid if unauthorized repairs are made or attempted by unauthorized personnel.



- 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.

IXIO-D CAN: INSTALLATION GUIDE

1 MOUNTING & WIRING



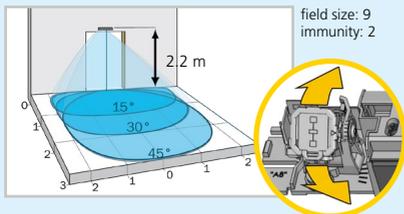
GREEN	+	POWER SUPPLY
BROWN	-	POWER SUPPLY
YELLOW		CAN HIGH
WHITE		CAN LOW



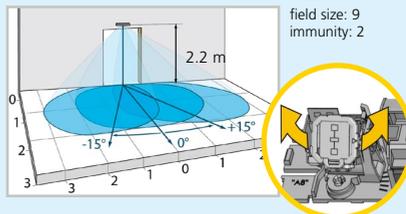
Plug the connector with the WHITE and GREEN wires on top towards the sensor cover.

2 RADAR OPENING IMPULSE FIELD

ANGLE

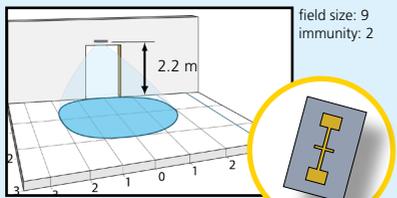


from 15° to 45°, default 30°

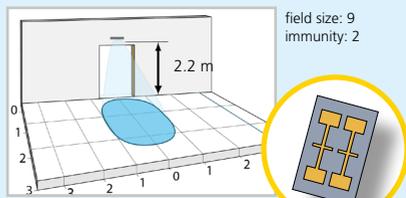


from -15° to 15°, default 0°

WIDTH



4 m x 2 m (wide)

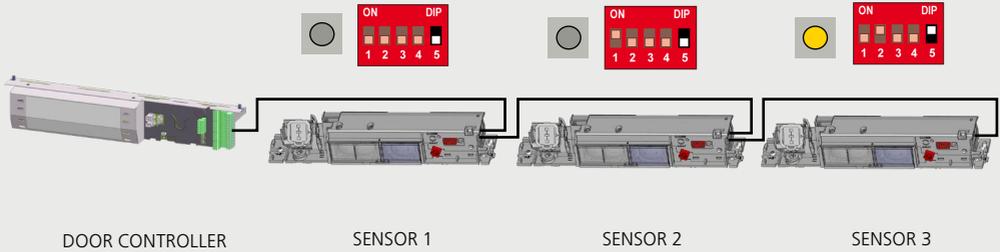


2 m x 2.5 m (narrow)

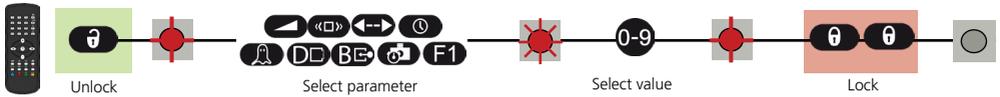
The size of the detection field varies according to the mounting height of the sensor. In emergency exits the full door width must be covered.

5 DIP-SWITCH 5: POSITION IN CHAIN

On the last sensor of the chain, adjust DIP-switch 5 to ON.
The orange LED next to the DIP-switch will be permanently on.



BEA REMOTE CONTROL



6 PRESETTINGS

You can choose one of the following presettings:



STANDARD:	standard in- and outdoor installations factory values for immunities, IR number and redirection	1
CRITICAL ENVIRONMENT:	critical installations due to surroundings or weather increased immunities, 1 curtain	2
SHOPPING STREET:	installations in narrow streets with pedestrian traffic increased immunities, redirection = motion and presence	3

7 SETUP / FACTORY RESET



STEP OUT OF THE INFRARED FIELD!



SETUP 1 (QUICK)

reference picture



SETUP 2 (ASSISTED)

test of full door cycle +
reference picture



FACTORY RESET

complete reset to factory values



OVERVIEW OF SETTINGS



	0	1	2	3	4	5	6	7	8	9	
RADAR FIELD SIZE	small	>	>	>	>	>	>		>	large	
RADAR IMMUNITY	low		>	>	>	>	>	>	>	high	
RADAR DIRECTION	radar off	bi	uni	uni PRM	uni AWAY	bi shop	uni shop	PRM shop	PRM: for persons with reduced mobility AWAY: unidirectional motion away from sensor auto: automatic adaptation of field size (small shops)		
RADAR HOLDTIME	0.5 s	1 s	2 s	3 s	4 s	5 s	6 s	7 s	8 s	9 s	
IR IMMUNITY	↑ < 2.8 m		↑ < 2.8 m		↑ > 2.8 m		↑ > 2.8 m		≥ 2,8 m : 6 + 7 (EN 16005) ≥ 2,2 m : 6 + 7 (BS 7036)		
IR FREQUENCY	low	normal	high	higher	highest	normal	high	Sensors mounted close to each other need a different frequency.			
IR NUMBER	service mode	1	2	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	motion	15 s	30 s	1 min	2 min	5 min	10 min	20 min	60 min	infinite	
IR WIDTH		WW	NN	WW	WW	NN	NN	WN	NW	NN	NN
REDIRECTION	motion	motion or presence	motion and presence	opening output is active in case of:				0	motion detection		
								1	motion or presence detection		
								2	motion and presence detection		

factory value



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

not allowed when the sensor is used in emergency exits

TROUBLESHOOTING

	The ORANGE LED flashes quickly.	DIP-switch setting awaiting confirmation.	Cut and restore power to confirm the DIP-switch setting
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. 2 Check wiring.
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. Decrease the IR-immunity filter (values 1-3 <2.8 m).
E6 	ORANGE LED flashes 6 x.	Faulty radar sensor output	1 Replace sensor.
E7 	ORANGE LED flashes 7 x.	The internal test of the radar is disturbed.	1 Change radar field angle or antenna. 2 Launch a quick setup. 3 If orange LED flashes again, replace sensor.
E8 	ORANGE LED flashes 8 x.	IR power emitter is faulty.	1 Replace sensor.
E9 	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 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 (< 2,8 m). 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 is off.		1 Check power supply and wiring.
	The reaction of the door does not correspond to the LED-signal.		1 Check CAN communication.
	The 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.

TECHNICAL SPECIFICATIONS

Supply voltage:	12 V - 30 V DC +/-10% (To be operated from low-voltage systems with electrical separation only (SELV))
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:	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
Communication interface:	CAN	CAN
Conformity:	EN 12978 EN ISO 13849-1 PL «d» CAT. 2 EN 16005 Chapter 4.6.8; DIN 18650-1 Chapter 5.7.4; AutSchR BS 7036-1 Chapter 7.3.2	EN 12978 EN ISO 13849-1PL «c» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle) IEC 61496-1 ESPE Type 2 EN 16005 Chapter 4.6.8; DIN 18650-1 Chapter 5.7.4 BS 7036-1 Chapter 8.1

PLEASE KEEP FOR FURTHER USE - DESIGNED FOR COLOUR PRINTING



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

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BEA hereby declares that the IXIO-D CAN is in conformity with the basic requirements and the other relevant provisions of the directives 2014/53/EU, 2006/42/EC and 2011/65/EU.



This product should be disposed of separately from unsorted municipal waste

A Halima company