

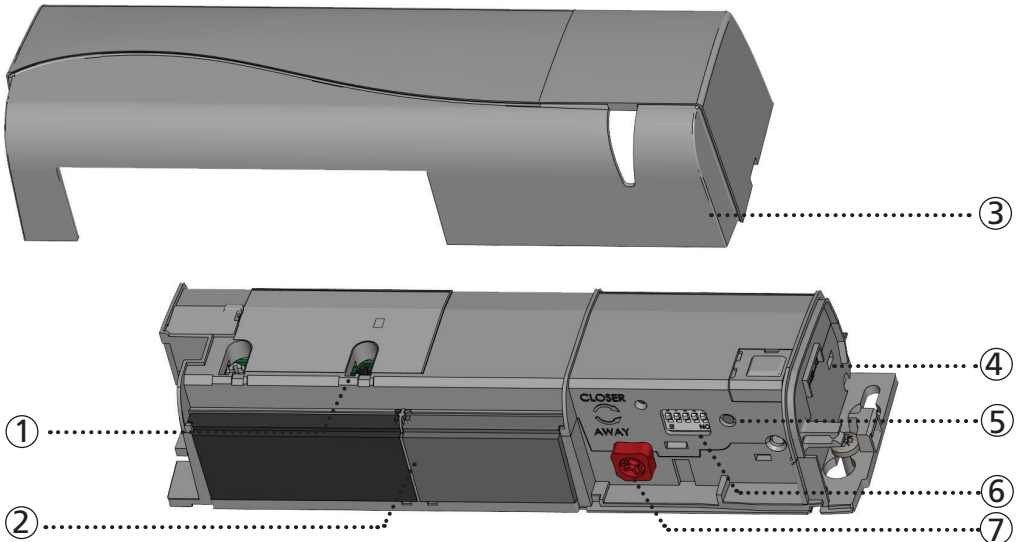
IXIO-S CAN

SAFETY SENSOR FOR AUTOMATIC SLIDING DOORS

(according to EN 16005 and DIN 18650)

User's Guide for software version 0300 and higher
(refer to tracking label on product)

DESCRIPTION



- | | | | |
|----|-----------------------------|----|----------------------------------|
| 1. | IR-curtain width adjustment | 5. | push button |
| 2. | IR-lenses | 6. | DIP-switch |
| 3. | cover | 7. | IR-curtain angle adjustment knob |
| 4. | main connectors | | |

ACCESSORIES



BA: Bracket accessory



CA: Ceiling accessory



RA: Rain accessory



BEA Remote control



CDA: Curved door accessory

LED-SIGNAL



Presence detection



LED flashes



LED flashes x times



LED flashes red-green



LED flashes quickly

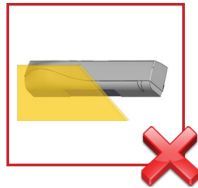


LED is off

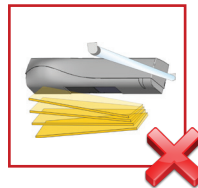
INSTALLATION



the sensor should be fixed firmly to avoid extreme vibrations.



Do not cover the sensor.

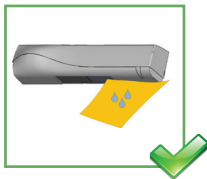


Avoid moving objects and light sources in the detection field.

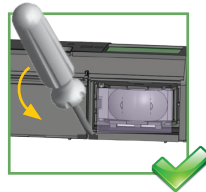


Avoid highly reflective objects in the infrared field.

MAINTENANCE



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

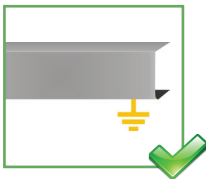


For complete cleaning, remove both windows by inserting a screwdriver into the notches located between the two windows.



Do not use aggressive products to clean the optical parts.

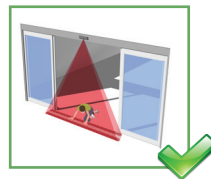
SAFETY



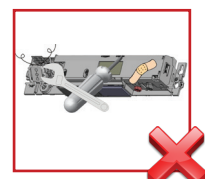
the door control unit and the door cover profile must be correctly earthed.



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



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



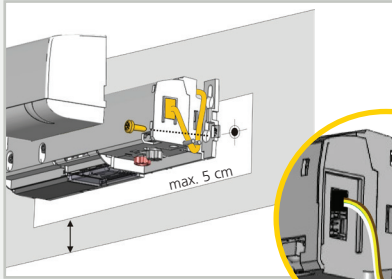
the warranty is invalid if unauthorized repairs are made or attempted by unauthorized personnel.



- 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.

IXIO-S CAN: INSTALLATION GUIDE

1 MOUNTING & WIRING

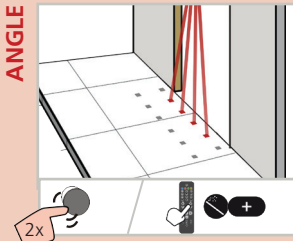


GREEN		+	POWER
BROWN		-	SUPPLY
YELLOW			CAN HIGH
WHITE			CAN LOW

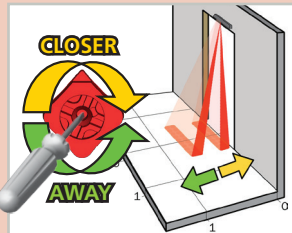
Plug the connector with the WHITE and GREEN wires on top towards the sensor cover.

Mount the sensor securely.

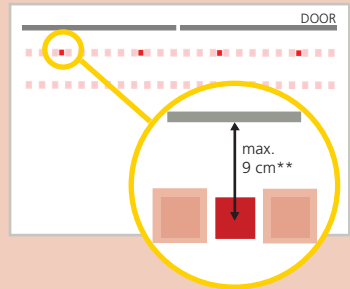
2 INFRARED SAFETY FIELD



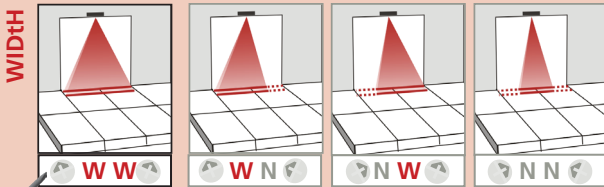
Activate the visible* spots to verify the position of the IR-curtain.



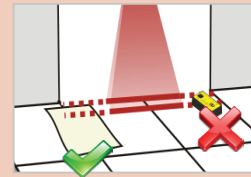
If necessary, adjust the IR-curtain angle (from -7° to 4°, default 0°).



* 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.



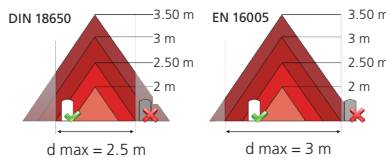
Part of the detection field can be masked to reduce it. the arrow position determines the width of the detection field.



tIP! Additional adjustments are possible (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.

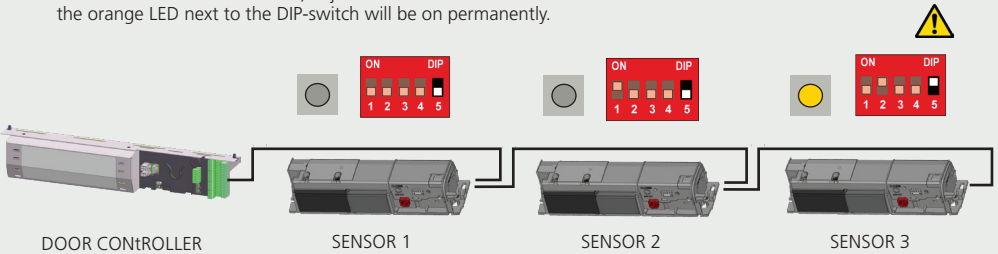
3 DIP-SWITCH 1-4: CAN-ADDRESS

  DIP-switches: each sensor needs a different CAN address depending on its position. After changing a DIP-switch, the orange LED flashes quickly. Cut and restore power supply to confirm the setting.



4 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 on permanently.



5 PRESETTINGS

You can choose one of the following presettings:



- | | | |
|------------------------------|--|---|
| STANDARD: | standard in- and outdoor installations
factory values for IR immunity & IR number |  1 |
| CRITICAL ENVIRONMENT: | critical installations due to surroundings or weather
increased IR immunity |  2 |
| SHOPPING STREET: | installations in narrow streets with pedestrian traffic
increased IR immunity & 1 curtain |  3 |

6 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

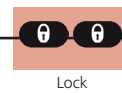
	0	1	2	3	4	5	6	7	8	9
IR IMMUNITY										
IR FREQUENCY										
IR NUMBER										
IR PRESENCE TIME										
IR WIDTH										
REDIRECTION										

	0	1	2	3	4	5	6	7	8	9
IR IMMUNITY	low	normal	high	higher	highest	normal	high	≥ 2.8 m : 6 + 7 (EN 16005)		
IR FREQUENCY	A	B	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	safety	safety + opening	0 presence detection on safety input 1 presence detection on safety and opening input							












factory value



excludes conformity of the door system according to EN 16005 / DIN 18650. IR Immunity on values 4 or 5 is incompatible with IR presence time on value 0



TROUBLESHOOTING

	 The ORANGE LED flashes quickly.	DIP-switch setting awaiting confirmation.	Cut and restore power to confirm the DIP-switch setting confirmation.
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.
		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 ($< 2,8$ m). 2 Select presetting 2 or 3.
	 the LED is off.		1 Check power supply. 2 Check 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%
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 (IEC/EN 60529)
Noise:	< 70 dBA
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
Communication interface:	CAN
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)

* External electrical sources must be within specified voltages, max 15W and ensure double insulation from primary voltages.



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



BEA hereby declares that this product is in conformity with European legislation :
2014/30/EU (EMC), 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

