ENGLISH

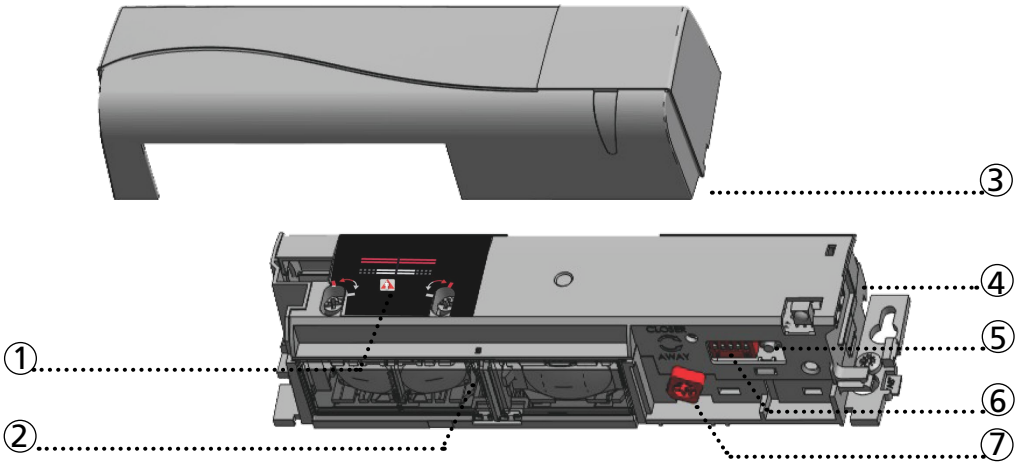
IXIO-S CAN

SAFETY SENSOR
FOR AUTOMATIC SLIDING DOORS

(according to EN 16005 and DIN 18650)

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

DESCRIPTION



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

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

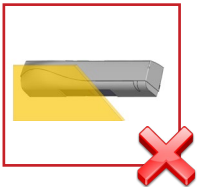
LED flashes red-green

LED flashes quickly

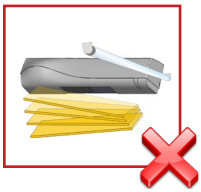
LED is off

INSTALLATION

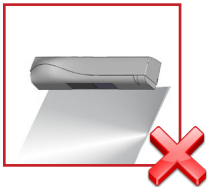
the sensor should be fixed firmly to avoid extreme vibrations.



Do not cover the sensor.

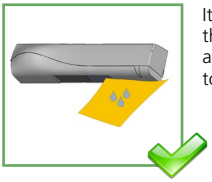


Avoid moving objects and light sources in the detection field.



Avoid highly reflective objects in the infrared field.

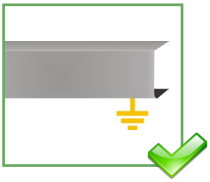
MAINTENANCE



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

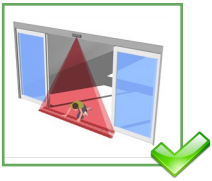
Do not use aggressive products to clean the optical parts.

SAFETY

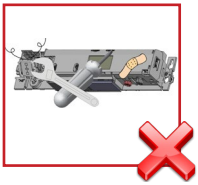


the door control unit and the door cover profile must be correctly earthed.

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.

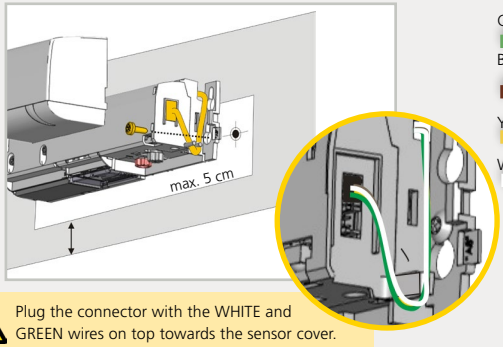
⚠

- 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-S CAN: INSTALLATION GUIDE

ENGLISH

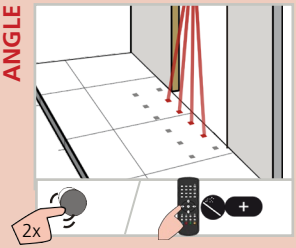
1 MOUNTING & WIRING



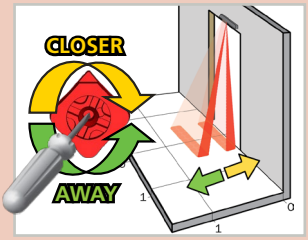
Plug the connector with the WHITE and GREEN wires on top towards the sensor cover.

2 INFRARED SAFETY FIELD

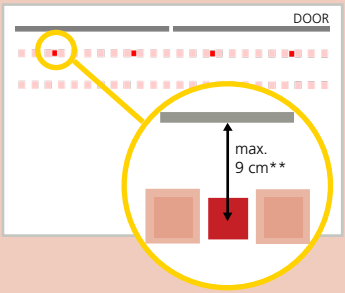
ANGLE



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

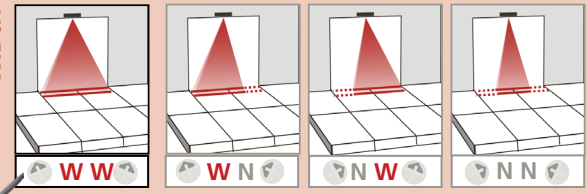


If necessary, adjust the IR-curtain angle (from -7° to 4°, default 0°).

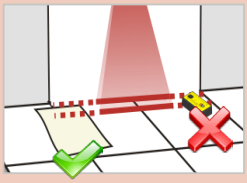


* Visibility depends on external conditions. When spots are not visible, use the Spotfinder to locate the curtains.
** the distance between the inner curtain of the inside door sensor and the inner curtain of the outside door sensor should always be smaller than 20 cm. the distance to the door leaf depends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

WIDtH



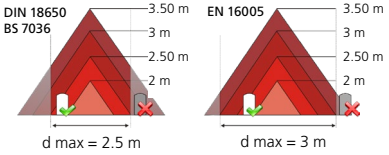
Part of the field can be masked to reduce it.
the arrow position determines the width of the detection field.



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

tIP!
Additional adjustments are possible (see p. 5)

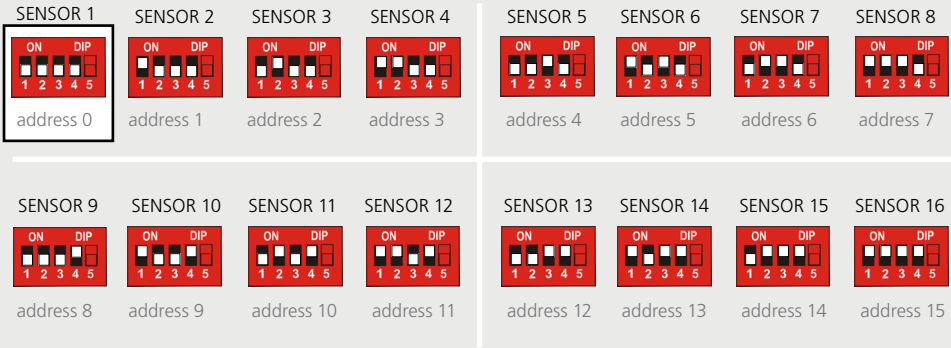
Mounting height	Detection width
2.00 m	2.00 m
2.20 m	2.20 m
2.50 m	2.50 m
3.00 m	d max
3.50 m	d max



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.

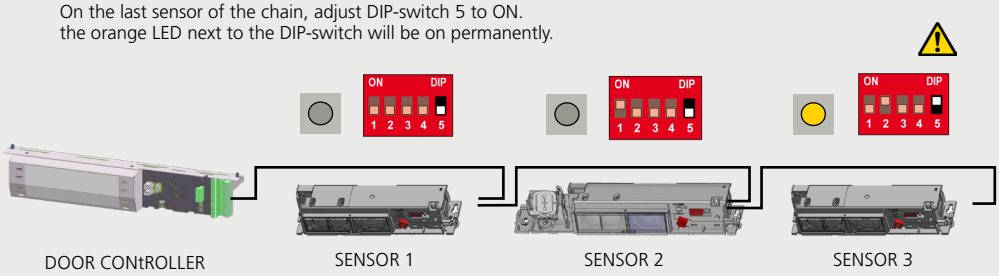
3 DIP-SWITCH 1-4: CAN-ADDRESS

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

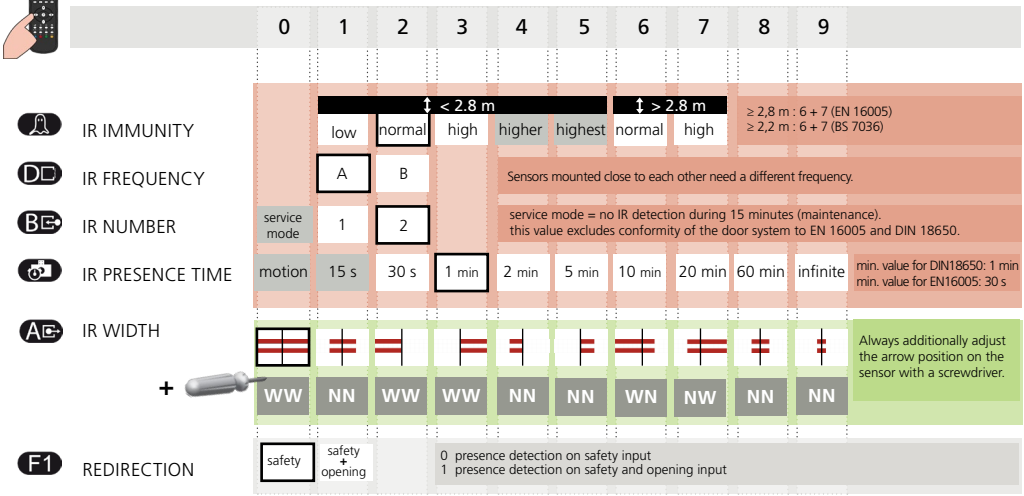
2 s

SETUP 2 (ASSISTED)
test of full door cycle +
reference picture

4 s

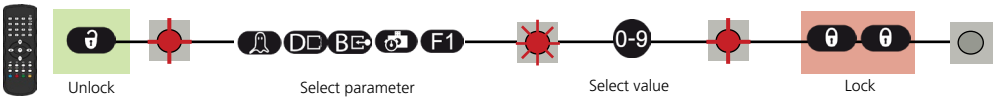
FACTORY RESET complete reset to factory values

OVERVIEW OF SETTINGS



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



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.
		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% (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:	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
Norm conformity:	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

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

A **Halma** company

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BEA hereby declares that the IXIO-S CAN 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.

This product should be disposed of separately from unsorted municipal waste