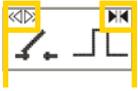


HOW TO USE THE LCD?

DISPLAY DURING NORMAL FUNCTIONING

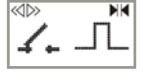


Opening impulse

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



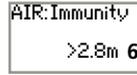
Push to select parameter



current value is displayed



Scroll values up-down



more values are displayed



Push to save new value

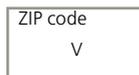
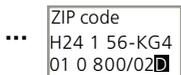


new value is displayed

CHANGING A ZIP CODE



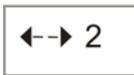
See application note on ZIP CODE



Validate the last digit in order to activate the new ZIP code:

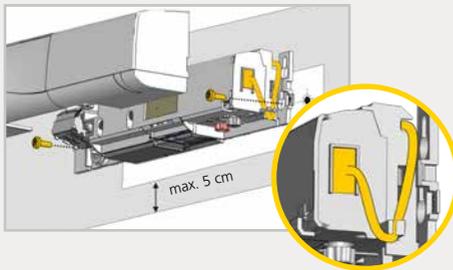
- v = valid ZIP code, values will be changed accordingly
- x = invalid ZIP code, no values will be changed
- v/x = valid ZIP code, but from a different product. Only available values will be changed.

VALUE CHECK WITH REMOTE CONTROL

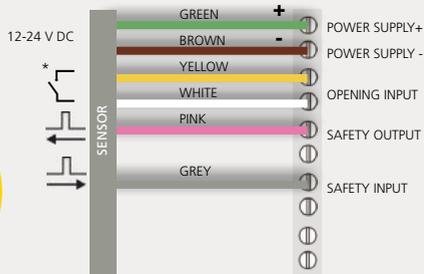


Pressing a parameter symbol on your remote control, displays the saved value directly on the LCD-screen. Do not unlock first.

1 MOUNTING & WIRING



Fixation is compatible with the ACTIV8.



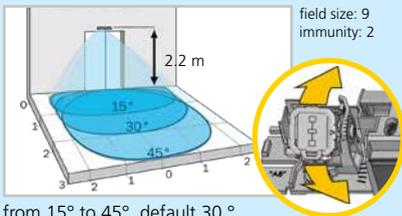
* Output status when sensor is operational



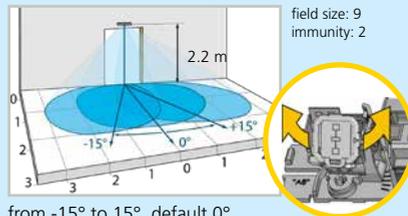
Do not invert polarity.

2 RADAR OPENING IMPULSE FIELD

ANGLE

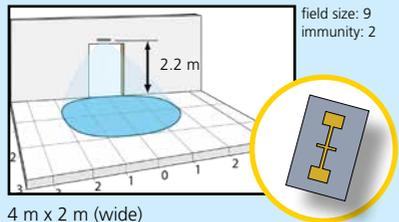


from 15° to 45°, default 30°

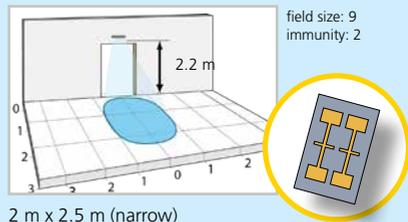


from -15° to 15°, default 0°

WIDTH



4 m x 2 m (wide)

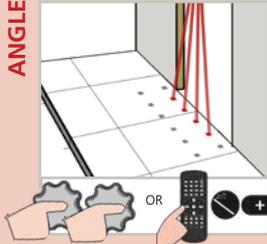


2 m x 2.5 m (narrow)

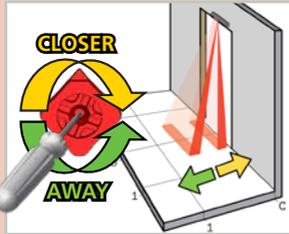
The size of the detection field varies according to the mounting height of the sensor.

3 INFRARED SAFETY FIELD

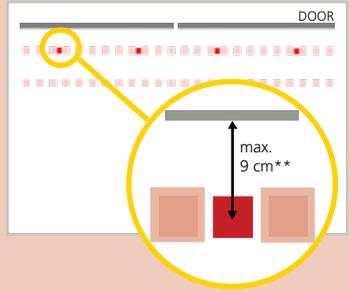
ANGLE



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

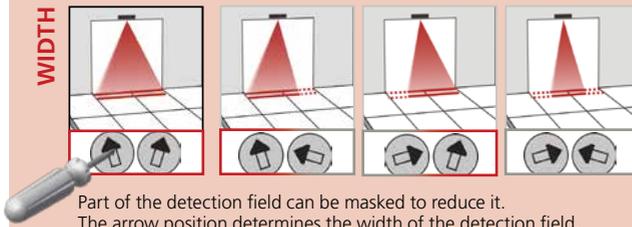


If necessary, adjust the IR-curtain angle (from -7° to 4° , default 0°).



* 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



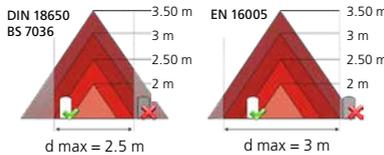
Part of the detection field can be masked to reduce it. The arrow position determines the width of the detection field.



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.

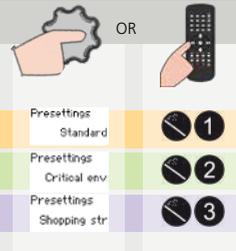
4 SETTINGS

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

STANDARD: standard in- and outdoor installations

CRITICAL ENVIRONMENT: critical installations due to surroundings or weather

SHOPPING STREET: installations in narrow streets with pedestrian traffic



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

	0	1	2	3	4	5	6	7	8	9		
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> </div> <div> <p>Back</p> <p>More</p> </div> </div>												
PRESETTINGS		standard	critical env.	shopping street			factory values for radar immunity, IR immunity, IR number and redirection increased immunities, 1 curtain increased immunities, redirection = motion and presence					
RAD: FIELD SIZE	small	>	>	>	>	>	>		>	large		
IR: IMMUNITY		low	normal	high	higher	highest	normal	high	For conformity to EN 16005 or DIN 18650 at a mounting height of 2.8 or more, use values 6 and 7.			
IR: FREQUENCY		A	B	Sensors mounted close to each other should have a different frequency.					For conformity to BS 7036 at a mounting height of 2.2 m or more, use values 6 and 7.			
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> </div> <div> <p>More Back</p> </div> </div>												
		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								
RAD: IMMUNITY		low		>	>	>	>	>	>	high		
RAD: DIRECTION	radar off	bi	uni	uni PRM	uni AWAY	bi auto	uni auto	PRM auto	PRM: for persons with reduced mobility AWAY: unidirectional motion away from sensor auto: automatic adaptation of field size (small shops)			
RAD: HOLD TIME	0.5 s	1 s	2 s	3 s	4 s	5 s	6 s	7 s	8 s	9 s		
RAD: OUTPUT		NO	NC	NC	NO						NO: normally open NC: normally closed	
IR: WIDTH											Always additionally adjust the arrow position on the sensor with a screwdriver.	
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	min. value for DIN18650: 1 min min. value for EN16005: 30 s	
IR: OUTPUT		pulse										
PULSE INPUT	negative	positive										
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 RESET									full reset	partial reset	partial: outputs are not reset	
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> </div> <div> <p>More Back</p> </div> </div>												
DIAGNOSTICS	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										
	OPERATING TIME	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.	<ol style="list-style-type: none"> 1 Replace sensor.
E2	 ORANGE LED flashes 2 x.	The power supply is too low or too high.	<ol style="list-style-type: none"> 1 Check power supply (in the diagnostics menu of the LCD). 2 Check wiring.
E4	 ORANGE LED flashes 4 x.	The sensor receives not enough IR-energy.	<ol style="list-style-type: none"> 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.	<ol style="list-style-type: none"> 1 Slightly increase the angle of the IR-curtains.
E8	 ORANGE LED flashes 8 x.	IR power emitter is faulty.	<ol style="list-style-type: none"> 1 Eliminate the cause of disturbance (lamps, rain cover, door controller housing properly grounded).
	 ORANGE LED is on.	The sensor encounters a memory problem.	<ol style="list-style-type: none"> 1 Replace sensor.
	 RED LED flashes quickly after an assisted setup.	The sensor sees the door during the assisted setup.	<ol style="list-style-type: none"> 1 Cut and restore power supply. 2 If orange LED lights up again, replace sensor.
	 RED LED lights up sporadically.	The sensor vibrates.	<ol style="list-style-type: none"> 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 sees the door.	<ol style="list-style-type: none"> 1 Check if the sensor is fastened firmly. 2 Check position of cable and cover.
	 RED LED lights up sporadically.	The sensor is disturbed by external conditions.	<ol style="list-style-type: none"> 1 Launch an assisted setup and adjust the IR angle.
	 GREEN LED lights up sporadically.	The sensor is disturbed by rain and/or leaves.	<ol style="list-style-type: none"> 1 Increase the IR-immunity filter to value 3. 2 Select presetting 2 or 3.
	 GREEN LED lights up sporadically.	Ghosting created by door movement.	<ol style="list-style-type: none"> 1 Select presetting 2 or 3. 2 Increase radar-immunity filter.
	 GREEN LED lights up sporadically.	The sensor vibrates.	<ol style="list-style-type: none"> 1 Change radar field angle.
	 GREEN LED lights up sporadically.	The sensor sees the door or other moving objects.	<ol style="list-style-type: none"> 1 Check if the sensor and door cover is fastened firmly. 2 Check position of cable and cover.
	 GREEN LED lights up sporadically.	The LED and the LCD-display are off.	<ol style="list-style-type: none"> 1 Remove the objects if possible. 2 Change radar field size or angle.
	 GREEN LED lights up sporadically.	The reaction of the door does not correspond to the LED-signal.	<ol style="list-style-type: none"> 1 Check wiring.
	 GREEN LED lights up sporadically.	The LCD or remote control does not react.	<ol style="list-style-type: none"> 1 Check output configuration setting. 2 Check wiring.
	 The LCD or remote control does not react.	The sensor is protected by a password.	<ol style="list-style-type: none"> 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



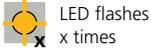
Motion detection



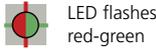
Presence detection



LED flashes



LED flashes
x times



LED flashes
red-green



LED flashes
quickly

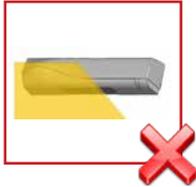


LED is off

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

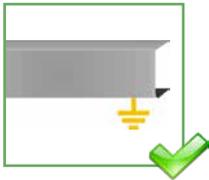


It is recommended to clean the optical parts at least once a year or more if required due to environmental conditions.



Do not use aggressive products to clean the optical parts.

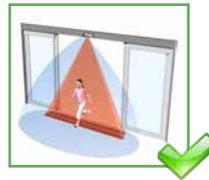
SAFETY



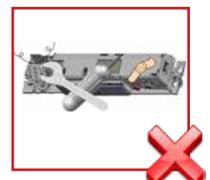
The door control unit and the door cover profile must be correctly earthed.



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.

TECHNICAL SPECIFICATIONS

Supply voltage:	12 V - 30 V DC +/-10% (to be operated from SELV compatible power supplies only)
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
Applicable directives:	RED 2014/53/EU; MD 2006/42/EC; ROHS 2 2011/65/EU



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	-Input: Pulse polarity: positive or negative (adjustable) Impedance: - Positive pulse: 2 K to ground - Negative pulse: 470 R to + sensor power supply Pulse voltage: 6 V to 30 V Pulse duration: 4 µs to 500 µs Duty cycle: max. 50% -Output: Pulse polarity: negative Level: - Standby: Pulse from V to ground - Detection: V Supply Topology: op-collector with 4.7 K to 3.3 V Max. sink current: 25 mA with external 1 K to 24 V
Norm conformity:		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) 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 temperature of 25°C.



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BEA hereby declares that the IXIO-DP1 is in conformity with the basic requirements and the other relevant provisions of the directives 2014/53/EU, and 2006/42/EC.

Notified Body for EC-type inspection: 0044 - TÜV NORD CERT GmbH, Langemarkstr. 20, D-45141 Essen

EC-type examination certificate number: 44 205 13089612

Angleur, September 2017 Pierre Gardier, authorized representative and responsible for technical documentation

The complete declaration of conformity is available on our website

Only for EC countries: According to the European Guideline 2012/19/EU for Waste Electrical and Electronic Equipment (WEEE)

