



TECHNICAL SPECIFICATIONS

Supply voltage:	12 V - 24 V AC +/-10% ; 12 V - 35 V DC +/-10%	
Power consumption:	< 2.5 W	
Mounting height:	6.5 ft to 11.5 ft (local regulations may have an impact on the acceptable mounting height)	
Temperature range:	Sensor: -31°F to +131°F LCD: 14°F to +131°F 0-95% relative humidity, non condensing	
Degree of protection:	IP54	
Applicable directives:	R&TTE 1999/5/EC; EMC 2004/108/EC; MD 2006/42/EC; RoHS 2002/95/EC	
Detection mode:	 Motion Min. detection speed: 2 in/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/cm²	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 Adjustable Holdtime: 0.5 to 9 s	Solid-state-relay (potential and polarity free) Max. contact current: 100 mA Max. contact voltage: 42 V AC/DC Automatic Holdtime: 0.3 or 1 s
Test input *:	Sensitivity: Low: < 1 V; High: > 10 V (max. 30 V) Response time on test request: typical: < 5 ms	

Specifications are subject to changes without prior notice.
All values measured in specific conditions.

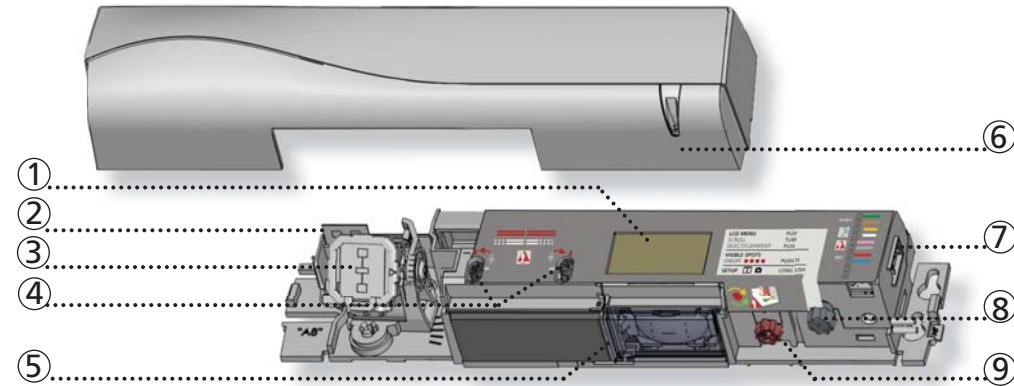
* SEE APPLICATION NOTES OR CONTACT BEA FOR TECHNICAL SUPPORT

IXIO-DT1

Activation & safety sensor
for automatic sliding doors
(US Version)

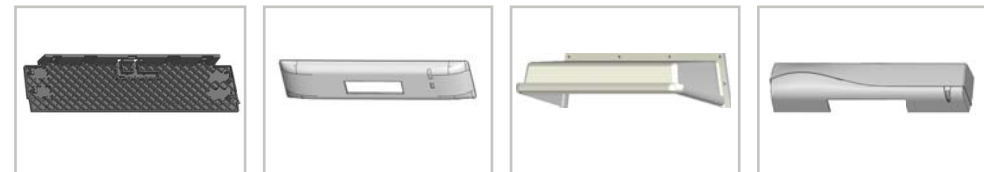


DESCRIPTION



- | | |
|---------------------------------|--------------------------------------|
| 1. LCD | 6. cover |
| 2. radar antenna (narrow field) | 7. main connector |
| 3. radar antenna (wide field) | 8. main adjustment knob |
| 4. AIR-curtain width adjustment | 9. AIR-curtain angle adjustment knob |
| 5. AIR-lenses | |

ACCESSORIES



10IDMB: Mounting Bracket 10IDCA: Ceiling Adapter 10WRC: Clear Rain Cover 35.1286: Black Cover
35.1302: White Cover
35.1303: Silver Cover

ANSI / AAADM Compliance  **American Association of Automatic Door Manufacturers**

Upon completion of the installation or service work, at a minimum, perform a daily safety check in accordance with the minimum inspection guidelines provided by AAADM. Provide each equipment owner with an owner's manual that includes a daily safety checklist and contains, at a minimum, the information recommended by AAADM. Offer an information session with the equipment owner explaining how to perform daily inspections and point out the location of power/operation switches to disable the equipment if a compliance issue is noted. The equipment should be inspected annually in accordance with the minimum inspection guidelines. A safety check that includes, at a minimum, the items listed on the safety information label must be performed during each service call. If you are not an AAADM certified inspector, BEA strongly recommends you have an AAADM certified inspector perform an AAADM inspection and place a valid inspection sticker below the safety information label prior to putting the equipment into operation.

24/7 Technical Support:
1-800-407-4545

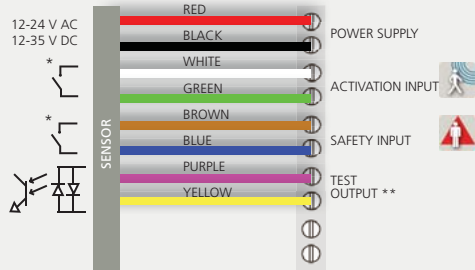
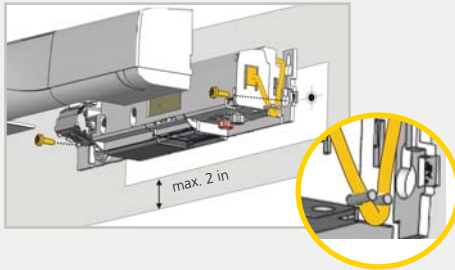
Customer Service:
1-800-523-2462

General Technical Questions:
Tech_Services@beainc.com

Technical Documentation:
www.beasensors.com



1 MOUNTING & WIRING



TIP!
Mounting and wiring are compatible with the Wizard.

** SEE APPLICATION NOTES OR CONTACT BEA FOR TECHNICAL SUPPORT

INSTALLATION



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

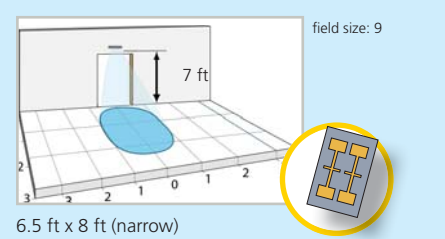
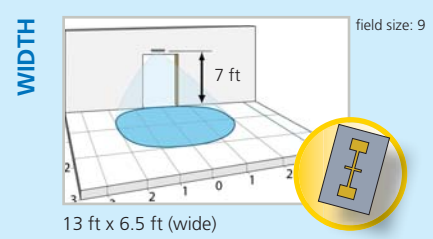
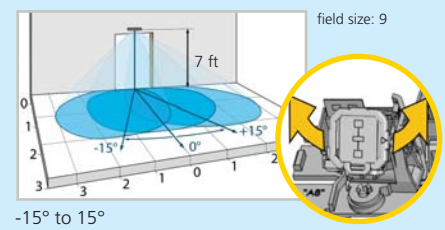
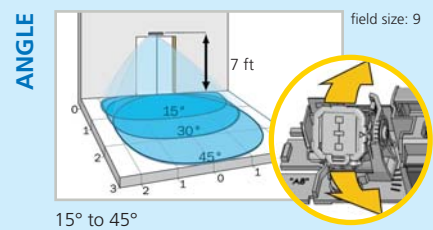


It is recommended to clean the optical parts at least once a year or more if required due to environmental conditions.



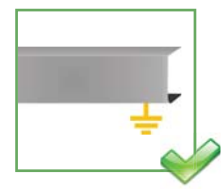
Do not use aggressive products to clean the optical parts.

2 ACTIVATION ZONE



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

SAFETY



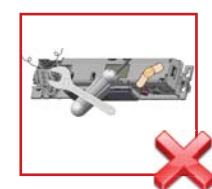
The door control unit and the door cover profile must be correctly grounded.



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



Always test the proper operation of the installation before leaving the premises.



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



- The device should not be used for purposes other than its intended use. All other uses cannot be guaranteed by the manufacturer of the sensor.
- The installer 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.

TROUBLESHOOTING

	The ORANGE LED flashes 1 x.	The sensor signals an internal fault.	<ol style="list-style-type: none"> 1 Cycle power supply. 2 If orange LED flashes again, replace sensor.
	The ORANGE LED flashes 2 x.	The power supply voltage 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.
	The ORANGE LED flashes 4 x.	The sensor does not receive enough AIR-energy.	<ol style="list-style-type: none"> 1 Check the angle of the AIR-curtains. 2 Increase AIR-immunity filter to value 2 (enhanced).
	The ORANGE LED flashes 5 x.	The sensor receives too much AIR-energy.	<ol style="list-style-type: none"> 1 Check the angle of the AIR-curtains. 2 Decrease the AIR immunity filter to value 1 (normal).
	The ORANGE LED flashes 8 x.	The AIR power emitter is faulty.	<ol style="list-style-type: none"> 1 Replace sensor.
	The ORANGE LED is on.	The sensor encounters a memory problem.	<ol style="list-style-type: none"> 1 Cycle power supply. 2 If orange LED turns on again, replace sensor.
	The RED LED flashes quickly after an assisted setup.	The sensor sees the door during the assisted setup.	<ol style="list-style-type: none"> 1 Check the angle of the AIR-curtains. 2 Launch a new assisted setup. <i>Attention: Do not stand in the detection field!</i>
	The RED LED flashes sporadically.	The sensor vibrates.	<ol style="list-style-type: none"> 1 Check if the sensor is mounted firmly. 2 Check position of cable and cover.
		The sensor sees the door.	<ol style="list-style-type: none"> 1 Launch an assisted setup and adjust the AIR angle.
		The sensor is disturbed by external conditions.	<ol style="list-style-type: none"> 1 Increase the AIR-immunity filter to value 2 (enhanced).
	The GREEN LED flashes sporadically.	The sensor is disturbed by rain and/or leaves.	<ol style="list-style-type: none"> 1 Increase radar-immunity filter.
		Ghosting created by door movement.	<ol style="list-style-type: none"> 1 Change radar field angle.
		The sensor vibrates.	<ol style="list-style-type: none"> 1 Check if the sensor and door cover is mounted firmly. 2 Check position of cable and cover.
		The sensor sees the door or other moving objects.	<ol style="list-style-type: none"> 1 Remove the objects if possible. 2 Change radar field size or angle.
	The LED and the LCD-display are off.		<ol style="list-style-type: none"> 1 Cycle power supply. 2 Check wiring.
		The reaction of the door does not correspond to the LED-signal.	<ol style="list-style-type: none"> 1 Check output configuration setting. 2 Check wiring.

- Motion detection green
- Presence detection red
- LED flashes
- LED flashes quickly
- LED is off

3 SAFETY ZONE

ANGLE

Activate the visible spots.*

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

* 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 8 inches.

WIDTH

The arrow position determines the width of the detection field.

TIP!
Always remember to also adjust the width via the LCD or remote control (see p. 5)

Always verify the actual detection field width with this user's guide and not the Spotfinder, which detects the whole emitted field.

Mounting height	Detection width
6.6 ft	6.6 ft
7.2 ft	7.2 ft
8.2 ft	8.2 ft
9.8 ft	9.8 ft
11.5 ft	11.5 ft

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

4 SETTINGS

Adjust the sensor by LCD or remote control (see p. 4 and 5)



5 SETUP

IMPORTANT! Step out of the detection field before launching a setup.

SETUP 1 (QUICK) =

OR

LONG PUSH (2 s)

SETUP 2 (ASSISTED) = + +

OPEN+CLOSE

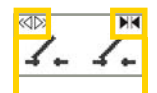
OR

LONG PUSH (4 s)

IMPORTANT! Walk test the proper operation of the installation before leaving the premises.

HOW TO USE THE LCD?

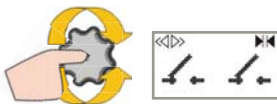
DISPLAY DURING NORMAL OPERATION



Activation Safety

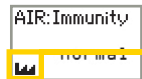


Negative display = active output

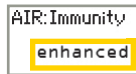


To adjust contrast, push and turn the grey button simultaneously. During normal operation only.

FACTORY VALUE VS. SAVED VALUE



displayed value = factory value



displayed value = saved value

NAVIGATING IN MENUS



Push to enter the LCD-menu



Select your language before entering the first LCD-menu. Available for the first 30 seconds after power-on of the sensor.



Scroll menu items



Select **Back** to return to previous menu or display.

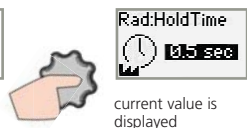


Select **More** to go to next level:
- basic settings
- all settings
- diagnostics

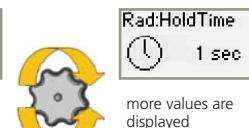
CHANGING A VALUE



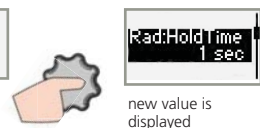
SCROLL MENU UP-DOWN



PUSH TO SELECT PARAMETER



SCROLL VALUES UP-DOWN



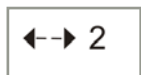
PUSH TO SAVE NEW VALUE

current value is displayed

more values are displayed

new value is displayed

VALUE CHECK WITH REMOTE CONTROL



Pressing a parameter symbol on your remote control, displays the saved value directly on the LCD-screen.

OVERVIEW OF SETTINGS

	0	1	2	3	4	5	6	7	8	9		
BASIC	Back											
	More											
	RAD: FIELD SIZE	small	>	>	>	>	>	>	>	>	large	↔
	AIR: WIDTH	↕	↕					↕	↕			Always additionally adjust the arrow position on the sensor with a screwdriver.
	AIR: OUTPUT *		NO NC	NC NO	NC NC	NO NO					NO: normally open NC: normally closed	↕
	TEST *	off	on									↕
	More Back											↔
	Back											
	More											
	RAD: FIELD SIZE	small	>	>	>	>	>	>	>	>	large	↔
RAD: IMMUNITY	low	>	>	>	>	>	>	>	>	high	↔	
RAD: DIRECTION	off	bi	uni	MTF							bi: bi-directional detection (towards & away) uni: unidirectional detection towards sensor MTF: uni with Motion Tracking Feature	↔
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: REENTRY	small	>	>	>	>	>	>	>	>	large	↔	
RAD: OUTPUT *		NO NC	NC NO	NC NC	NO NO						NO: normally open NC: normally closed	↕
RAD: EXTMON	off	on										
AIR: IMMUNITY		normal	enhanced								🔊	
AIR: WIDTH	↕	↕					↕	↕			Always remember to also adjust the arrow position on the sensor with a screwdriver.	
AIR: NUMBER	service mode	1	2								Service Mode = no IR detection during 15 minutes (maintenance).	BE
AIR: PRESTIME			30 s	1 min	2 min	5 min	10 min	20 min	60 min	∞	📷	
AIR: FREQ		A	B								Sensors mounted close to each other should have a different frequency.	DD
AIR: OUTPUT *		NO NC	NC NO	NC NC	NO NO						NO: normally open NC: normally closed	↕
TEST *	off	on									↕	
REDIRECTION	motion	motion or presence									activation output is active in case of: 0 motion detection 1 motion or presence detection	F1
FACTORYRST											restore to factory values	9
More Back											↔	
Back												
ZIP												
ID #												
CONFIG P/N												
SOFT P/N												
ERROR LOG												
AIR: SPOTVIEW												
AIR: C1 ENERG												
DIAGNOSTICS	AIR: C2 ENERG										signal amplitude received on curtain 2	
	POWERSUPPLY										supply voltage at power connector	
	OPERATINGTIME										power duration since first startup	
	RESET LOG										delete all saved errors	
	RC PASSWORD										password for remote control login	
	ADMIN										enter code to access admin mode	
BACK												

all parameter settings in zipped format
unique ID-number
configuration part number
software part number
the last 10 errors
view of spot(s) that trigger detection
signal amplitude received on curtain 1

AIR: C2 ENERG signal amplitude received on curtain 2
POWERSUPPLY supply voltage at power connector
OPERATINGTIME power duration since first startup
RESET LOG delete all saved errors
RC PASSWORD password for remote control login
ADMIN enter code to access admin mode
BACK

* SEE APPLICATION NOTES OR CONTACT BEA FOR TECHNICAL SUPPORT