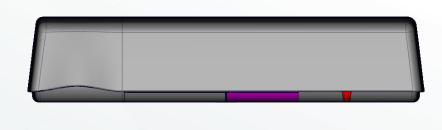


Z



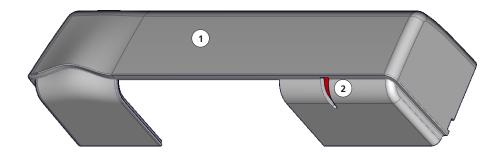


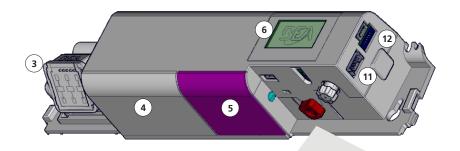
Visit website for available languages of this document.

### **ULTIMO**

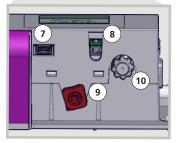
ACTIVATION AND SAFETY SENSOR FOR AUTOMATIC, SLIDING DOORS

Software version 2.7 / Configuration version 8.0 (refer to Admin menu for product software vesion)





- 1. cover
- 2. light pipe
- 3. radar antenna
- 4. AIR receiver
- 5. AIR emitter
- 6. LCD
- 7. [for internal use only]
- 8. LED
- 9. AIR curtain angle adjustment knob
- 10. main adjustment knob
- 11. main connector
- 12. [for future development]



#### **TECHNICAL SPECIFICATIONS**

Mounting height 6'6" – 11'6" typical: 7'2"

**Detection mode** motion and presence

**Technology** microwave doppler radar and active infrared (AIR) with background analysis

Radar detection speed (min) 2 in/s

AIR response time (typ.) < 200 ms (max. 500 ms)

Radar transmitter

 frequency
 24.150 GHz

 radiated power
 < 20 dBm EIRP</td>

 power density
 < 5 mW/cm²</td>

lobe angles 0 – 45° (typical adjustment), default 25°

AIR spots

number of curtains 3 curtain angles -3 – 11

curtain angles -3 – 11°, default 0°

**Relay output 1** electromechanical relay (potential- and polarity-free)

max. contact current 1 A
max. contact voltage 30 VDC
adjustable hold time 0.5 – 9 seconds

Optofet output 2 solid-state relay (potential- and polarity-free)

max. contact current 400 mA
max. contact voltage 42 VAC/VDC
hold time 0.3 – 1 second

Test/Monitoring input

sensitivity low: < 1 V high: > 10 V (max. 30V)

response time on request <5 ms (typ.)

Supply voltage 12 – 24 VAC ±10%, DO NOT EXCEED 26.4 VAC

12 - 30 VDC ±10%

Power consumption < 3.2 W

Temperature range -13 – 131 °F \*

0 - 95% relative humidity, non-condensing

LCD screen is operational from 14 – 131 °F. The sensor may still be programmed in

colder temperatures, but with the remote control.

Cable length/gauge 10' / 26 AWG

Degree of protection IP54

Compliance R&TTE 1999/5/EC; MD 2006/42/EC; LVD 2006/95/EC; ROHS 2 2011/65/EU

Specifications are subject to change without prior notice.

All values measured in specific conditions.

#### **LED SIGNALS**

#### **COLORS**



(green) Motion detection



Presence detection



(white) IR synchronization

#### **BEHAVIORS**



LED flashes



LED flashes red-green



LED flashes quickly

LED flashes x times



LED is off

#### INSTALLATION



The sensor should be mounted securely 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.

This device can be expected to comply with Part 15 of the FCC Rules, provided it is assembled in exact accordance with the instructions provided with this kit. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### **MAINTENANCE**

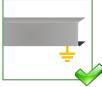


It is recommended to clean the optical parts <u>at least once a</u> <u>year</u> or more if required due to environmental conditions.



Do not use aggressive products to clean the optical parts.

#### **SAFETY**



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



Only trained and qualified personnel are recommended for installation and setup of the sensor.



Following installation, always test for proper operation (according to ANSI 156.10) before leaving the premises.



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

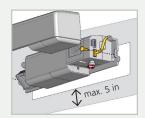
#### **MOUNTING & WIRING**

#### **MOUNTING**

 Using the provided mounting template, mount the sensor centered over the clear opening\*, ensuring that the bottom of the sensor is no higher than 5 inches from the bottom of the door header.







**DUAL SLIDER** 

SINGLE SLIDER

\* Extreme left or right mounting is an option for single-sliders when using IR:Width settings 4 or 5 (see page 10). Be sure that the edge of the sensor is aligned with edge of the door header



2. Route the harness (20.5349) using the wire stay as shown.



- Sensor connectivity (power and relays) must utilize only the supplied harness.
- Sensor is intended to be monitored for proper operation by the door operator or system.
- Harness shall be routed separated from any Mains or non-Class 2 voltage cable for correct operation or shall be rated for the Mains voltage, and suitable protection and routing means shall be used according to National and Local Codes to prevent damage to the harness and/or sensor.

#### **MOUNTING & WIRING**

#### WIRING

	RED	POWER SUPPLY <sup>1</sup>	
	BLACK	POWER SUPPLY <sup>1</sup>	
	BROWN	SAFETY INPUT	
~	BLUE	Safety input	DOOR
SENSOR	WHITE (COM)	OPENING INPUT	
	YELLOW (N.C.)	OPENING INPUT <sup>2</sup>	CONTROL
S	GREEN (N.O.)	OPENING INPUT <sup>2</sup>	TR.
	PURPLE	TEST OUTPUT <sup>3,4</sup>	
	PURPLE	TEST OUTPUT <sup>3,4</sup>	

1. Voltage: 12 - 24 VAC, 50/60 Hz; 12 - 30 VDC; < 3.2 W (max)



DO NOT EXCEED 26.4 VAC

If a power supply is needed, BEA recommends using only the 12V transformer (1012VAC).

- 2. Use either yellow or green, not both.
- 3. Test monitoring input: low = < 1 V, high = > 10 V (30 V max.); response time: typ. < 5 ms
- 4. The sensor LED will briefly flash RED and the LCD will display a monitoring notification during monitoring communication with the door control. This indicates that external monitoring is functional. Sensor monitoring functionality is automatic by default. Ensure purple wires are properly connected to the door controller and monitoring is enabled. Sensor monitoring logic is defaulted to ActiveLow. ActiveHigh monitoring logic is selectable via InTestLogic on menu 3. To turn sensor monitoring OFF, navigate to menu 3 on the LCD and set InTestMode to OFF.



Before proceeding to radar and IR setup and adjustments, please see pages 19 – 20 for "How to Use the LCD" and "How to Use the Remote Control," if necessary.

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#### 2 RADAR FIELD



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

Graphics are representations, not default settings.

#### **ANGLE**

Tilt the antenna up to adjust the depth outward and down to adjust inward from the doorway.





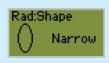
#### **SHAPE**

Navigate to menu 2 of the LCD to choose the desired width shape – wide lobe or narrow lobe.











If using remote control, you can also press and the plus sign (+) to select Wide shape or the minus sign (-) to select Narrow shape.

To check the existing radar field size/shape, use the following sequence:



x = number of flashes = corresponds to the field size

#### **DIRECTION**

- BI bi-directional detection of motion towards and away from the door (the door opens whenever any motion in the radar field is detected)
- UNI uni-directional detection of motion towards the door, the door opens only when motion towards the door is detected in the radar field, which results in energy saving

#### MTF motion tracking feature

**Recommended for:** Hospitals or nursing homes where pedestrian traffic tends to move slowly or hesitantly to prevent the door from opening and closing repeatedly.

#### **IMMUNITY**

Immunity regulates the ability of external factors (e.g. rain or light) to interfere with the detection performance of the sensor. When set to "high," this feature protects the sensor against external disturbances.

#### 2 RADAR FIELD

#### **REENTRY**

This feature re-directs the motion detection through the safety relay.

It is useful for one-way traffic applications (top image) as well as knowing-act activation (bottom image).

To enable this feature, select your desired re-rentry size via the LCD menu options (see page 13).

one-way

knowing-act



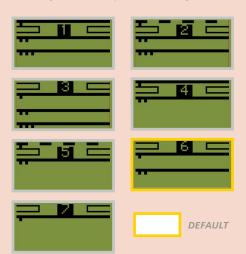
IMPORTANT: The safety circuit of the door must be ignored at the door-closed position.

#### 3 ACTIVE INFRARED SAFETY FIELD

### NUMBER OF CURTAINS / POSITION OF CURTAINS (IR:CURTAINS, MENU 1)

Choose the number of and position of the AIR curtains based on your application.

If necessary, use visible spots and red adjustment knob to position properly (see page 9).



#### NOTES

The sensor is defaulted to a Non-Threshold setting (6). If threshold is desired, you may choose setting 1, 2, 4, or 5. Be sure that the curtain placement matches the LCD screen.

BEA recommends using threshold settings on only one side of the door.

#### UNDERSTANDING THE LCD "CURTAINS" GRAPHICS

GENERAL SET	TINGS
•	the number of squares on a line indicates the curtain number (i.e. C1, C2, or C3)
	the rectangles on each side of the setting number represent sliding door panels
THRESHOLD S	ETTINGS (1, 2, 4, 5)
	a dotted line indicates that curtain C1 is active at full open and inactive during door closing cycle (settings 2 and 5)
	a solid line indicates that curtain C1 is active at full open and partially active during door closing cycle (settings 1 and 4)

#### **ACTIVE INFRARED SAFETY FIELD**

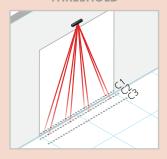
#### **ANGLE**

 Activate the four visible spots (press gray knob twice) to verify the position of the AIR curtains.

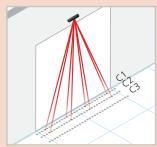
Visibility depends on external conditions. When spots are not visible, use the Spotfinder to locate the curtains.



**THRESHOLD** 

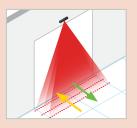


**NON-THRESHOLD** 



If necessary, adjust the AIR curtain angles using the red adjustment knob (see below) and then select the corresponding IR:Curtains setting on menu 1 of the LCD (see right).

NOTE: Be sure that setting shown on the LCD matches the AIR curtain position.





THRESHOLD



**NON-THRESHOLD** 

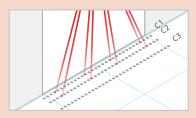


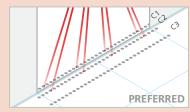
default

3. When in Threshold mode, verify correct positioning of the threshold curtain:

First, turn on the red spots, and then verify that either C1 is at least in line with the moving door panel (see image below, left) or \*preferred\* through the door opening (see image below, right).

Next, ensure that C2 is within 3 inches of face of door for the width of the door opening.

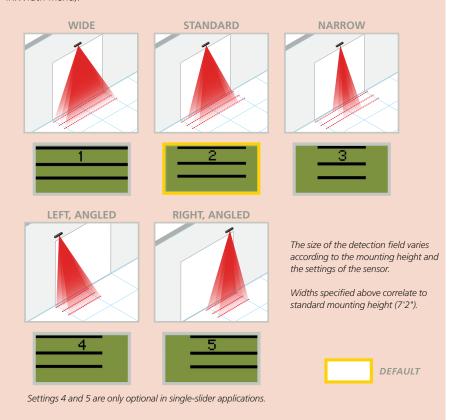




#### **ACTIVE INFRARED SAFETY FIELD**

#### **WIDTH**

1. If desired, adjust the field width using the LCD menu or remote control buttons (see page 13, IR:Width menu).



2. Always verify the actual AIR detection field by walk-testing according to ANSI 156.10. **Do not use a SPOTFINDER to verify the AIR detection field.** 





Additional adjustments are possible by LCD or remote control (see OVERVIEW OF SETTINGS).

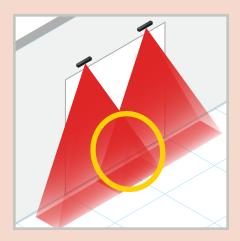
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#### **ACTIVE INFRARED SAFETY FIELD**

#### **IMMUNITY**

Immunity regulates the ability of external factors (e.g. rain or light) to interfere with the detection performance of the sensor. When set to "high," this feature protects the sensor against external disturbances.

#### **ULTI-SYNC: AUTOMATIC SAFETY FIELD SYNCHRONIZATION**



ULTI-SYNC is used to eliminate AIR crosstalk when safety fields are overlapping in the threshold of the door or when safety fields are overlapping side-to-side.

If installed with another sliding door sensor (BEA or otherwise), see the ULTI-SYNC CROSSTALK Application Note (78.6038)



The LED will flash white, confirming the synchronization is detected. If an overlapping safety field is found in the threshold of the door, ULTIMO will remain synchronized for 2 minutes while the door is closed. If activation does not occur for 2 minutes, the white LED will flash, confirming synchronization is lost. The fields will be synchronized again upon the next activation and will be confirmed by a flash of the white LED.

To check the synchronization status, navigate to menu 3, IR:Synch.

\* When sensors are installed close to each other, choose different emitting frequencies.



Ensure that the infrared field is clear of any obstructions.

The sensor can be set up using either the push button or the remote control:

#### PUSH BUTTON:

Press and hold the gray knob for 2 seconds.



#### REMOTE CONTROL:

Use the following remote control button sequence:





During setup, the LCD will display the camera icon and the LED will slowly flash red/green and then turn off.



Test the proper operation of the system installation before leaving the premises!

# SETTINGS

Use the following tables to aid in understanding settings set by either LCD menu or remote control.

shaded	
default =	

INFRARED SETTINGS ■ □ □	LINGS	0	0	<b>1</b> 2 3 4 6 6 (	0	4	0	0	0	6 8 2	6
IR:Width			wide	standard	narrow	left, angled right, angled	right, angled				
IR:Curtains			-	2	М	4	5	9	7		
IR:Immunity				normal		outdoor enhanced					
IR:PresTime	<b>6</b>			30 sec	1 min	2 min	5 min	10 min	20 min	60 min	infinite
IR:Freq				auto-synch	auto-synch   IXIO (new) <sup>1</sup>   IXIO (new) <sup>2</sup>	IXIO (new) <sup>2</sup>		IXIO (old) <sup>3</sup> Other <sup>5</sup>	IXIO (old) <sup>4</sup> other <sup>5</sup>		

<sup>1</sup> For use with IXIO software version 5.0 or higher; ensure that the IXIO is set to fred A

For use with non-BEA sensors

RADAR SETTINGS  □ ■ □	GS	0	9	0 0 0	<b>©</b>	4	9	2 9 9	0	8	0
Rad:Fieldsize	0	small	٨	٨	۸	۸	٨	٨	٨	٨	large
Rad:Direction			BI <>	BI <>   UNI >   MTF <	MTF <						
Rad:Shape	0	LCD: "narro Remote Con select the Na	w" and "wide trol: After pre arrow shape. ,	LCD: "narrow" and "wide" setting options (default = wide) Remote Control: After pressing the Rad:Fieldsize button, use select the Narrow shape. <i>Numeric remote control buttons a</i>	ons (default = Fieldsize butt te control but	wide) on, use the pl	us sign button applicable to t	LCD: "narrow" and "wide" setting options (default = wide) Remote Control: After pressing the Rad:Fieldsize button, use the plus sign button to select the Wide shape or the minus sign button to select the Narrow shape. <i>Numeric remote control buttons are only applicable to the Rad:Fieldsize function</i> .	Wide shape or <i>re function</i> .	the minus sig	In button to
Rad:Immunity	<b>©</b>		wol	٨	٨	٨	٨	٨	٨	٨	high
Rad:Reentry		small	٨	٨	٨	۸	٨	٨	٨	٨	large

<sup>2</sup> For use with IXIO software version 5.0 or higher; ensure that the IXIO is set to freq B

<sup>3</sup> For use with IXIO software version 5.0 or lower; ensure that the IXIO is set to freq A

<sup>4</sup> For use with IXIO software version 5.0 or lower; ensure that the IXIO is set to freq B

# SETTINGS (cont.)

8 2				7 sec 8 sec	7 sec 8 sec													full	
0				6 sec	6 sec														
9				5 sec	5 sec														
4		N.O.	N.O.	4 sec	4 sec										ironment	(A			
0		N.C.	N.C.	3 sec	3 sec										munity and en	in DC volts on			
0		N.O.	N.O.	2 sec	2 sec		auto		_		etection	curtain 1	curtain 2	curtain 3	relation to im	nector (shown			
0	RAD or IR	N.O.	N.C.	1 sec	1 sec	Active Low	uo		+ day indication	nchronization	view of spot(s) that trigger detection	signal amplitude received on curtain 1	signal amplitude received on curtain 2	signal amplitude received on curtain 3	reactivity speed of infrared in relation to immunity and environment	supply voltage at power connector (shown in DC volts only)	yes		
0	RAD			0.5 sec	0.5 sec	Active High	off	see next page	last 10 errors + day indication	status of IR synchronization	view of spot(s)	signal amplitu	signal amplitu	signal amplitu	reactivity spee	supply voltage	ou		
OUTPUTS & DIAGNOSTICS SETTINGS	1	8	3	0			AG												
SE				Out1HoldTime	Out2HoldTime														

## NOTES:

1. The sensor LED will briefly flash RED during monitoring communication with the door control. This indicates that external monitoring is functional. Monitoring functionality must be active on the sensor

Partial reset is only available via remote control. Partial restores all adjustable settings except Out1Funct, Out1Logic, Out2Logic, InTestLogic, and InTestMode. and door control, and monitoring wires must be properly connected to the door control.

# SETTINGS (cont.)

ADMIN SETTINGS	password: 1234
# QI	serial number of the sensor
Config P/N	configuration file identifier
Soft P/N	software version identifier
Operating Time	power duration since first startup
TempSensor	degrees in Celsius
Password	LCD and remote control password (0000 = no password)
QR code	scan to obtain ZIP code¹ for BEA technical support

 $\begin{tabular}{ll} \textbf{NOTES}. \\ 1. & \textbf{ZIP code} = a \ numerical identifier that contains the sensor's current parameters in a zipped format $$1. & \textbf{ZIP code} = a \ numerical identifier that contains the sensor's current parameters in a zipped format $$1. & \textbf{ZIP code} = a \ numerical identifier that contains the sensor's current parameters in a zipped format $$1. & \textbf{ZIP code} = a \ numerical identifier that contains the sensor's current parameters in a zipped format $$1. & \textbf{ZIP code} = a \ numerical identifier that contains the sensor's current parameters in a zipped format $$1. & \textbf{ZIP code} = a \ numerical identifier that contains the sensor's current parameters in a zipped format $$1. & \textbf{ZIP code} = a \ numerical identifier that contains the sensor identifier that $$1. & \textbf{ZIP code} = a \ numerical id$ 

#### **TROUBLESHOOTING**

#### **RED LED**

*	RED LED flashes quickly after a setup	The sensor sees the door during setup.	Move the AIR curtains away from the door.
			Ensure that the bottom of the sensor is mounted within 5" of the bottom of the door header.
			Launch a new assisted setup.
	RED LED illuminates sporadically	The sensor vibrates.	Check if the sensor is secure. Ensure that the header cover screws and mounting screws are tight.
			Check position of cable and sensor cover.
		The sensor sees the door in a non-threshold application.	Turn on the visible red spots and adjust the angle of the AIR curtains.
		The sensor is disturbed by external conditions.	Change the AIR immunity filter and AIR frequency.
*	RED LED flashes quickly when unlocking	The sensor is protected by a password.	Enter the correct password. If you forgot the code, cut and restore the power supply to access the sensor without entering a password during 1 minute.
<b>*</b>	RED Visible External Monitoring (Test Indication LED) does	Monitoring installation/setup error.	Verify door control is capable of monitoring and the sensor monitoring wires are properly connected to the door control.
	not flash		Verify monitoring (TEST) is ON in the sensor settings.
		Sensor malfunction.	Replace the sensor.
<b>\rightarrow</b>	RED Visible External Monitoring (Test	Wiring issue.	Verify wiring.
	Indication LED) flashes continuously	Door control not set correctly.	Verify door control monitoring set to correct test logic according to the door control.
*	LT1 - Assisted Setup Error	IR:Curtain set to 1, 2, 4, or 5, C2 and/or C3 interfering with door during <u>closing</u> cycle	Increase tilt angle of the interfering curtain to move the curtain away from the threshold (see pages 8 – 9).
*	LT2 - Assisted Setup Error	IR:Curtain set to 1, 2, 4, or 5, C2 and/or C3 interfering with door during <u>opening</u> cycle	Increase tilt angle of the interfering curtain to move the curtain away from the threshold (see pages 8 – 9).
*	LT3 - Assisted Setup Error	IR:Curtain set to 1, 2, 4, or 5, C1 not on door threshold	Decrease tilt angle of the interfering curtain to place the curtain on the threshold (see pages $8-9$ ).
*	N1 - Assisted Setup Error	IR:Curtain set to 3, 6, or 7, C2 and/or C3 interfering with door during <u>closing</u> cycle	Increase tilt angle of the interfering curtain to move the curtain away from the threshold (see pages 8 – 9).
*	N2 - Assisted Setup Error	IR:Curtain set to 3, 6, or 7, C2 and/or C3 interfering with door during <u>opening</u> cycle	Increase tilt angle of the interfering curtain to move the curtain away from the threshold (see pages 8 – 9).

#### **TROUBLESHOOTING**

#### **ORANGE LED**

	E1 - orange LED	The sensor signals an internal	Cycle power.
1	flashes once	fault.	If the error persists, replace the sensor. Locate serial number on product label before calling BEA.
<b></b>	E2 - orange LED flashes twice	The power supply voltage is too low/high.	Check power supply voltage in Diagnostics menu (menu 3) of the LCD.
			This is shown in DC Volts only. If using AC power, convert DC to AC value to determine proper power.
			Check wiring.
<b>\</b> 3	E3 - orange LED flashes 3 times	Radar communication error	Check the connection at the radar.
4	E4 - orange LED flashes 4 times	The sensor does not receive enough AIR energy.	Ensure proper mounting height.
			Turn on the visible red spots and adjust the angle of the AIR curtains.
			Deactivate curtain #3 (C3, outer curtain).
<b></b>	E5 - orange LED flashes 5 times	The sensor receives too much AIR energy.	Ensure proper mounting height.
			Turn on the visible red spots and adjust the angle of the AIR curtains.
		The sensor is disturbed by external elements.	Eliminate the cause of disturbance (lamps, rain cover, etc).
		IR curtain interference from another sensor	Adjust the IR curtain location or change the IR curtain to a non-threshold setting (see page 8). Be sure that setting shown on the LCD matches the AIR curtain position.
			Change IR frequency to another setting and launch a new teach-in.
<b>8</b>	E8 - orange LED flashes 8 times	Non-fatal error – displayed on LCD screen	Check power supply to ensure that it is within spec (12 $-$ 24 VAC or 12 $-$ 30 VDC).
		OR	If yes, cycle the power.
		Fatal error (faulty AIR emitter) – displayed on LCD screen	If the error continues to be displayed on the LCD screen, troubleshoot for E4 and E5 errors.
			If the error remains, contact BEA Technical Support.
			Locate serial number on product label before calling BEA.
	ORANGE LED is on	The sensor encounters a memory problem.	Cut and restore power supply. If ORANGE LED illuminates again, replace the sensor.

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#### GREEN LED



GREEN LED illuminates	The sensor is disturbed by rain and/or leaves.	Increase radar immunity filter and adjust the radar field angle.
sporadically	Ghosting created by door movement.	Change radar field angle.
	The sensor vibrates.	Check if the sensor and door header is secure.
		Check position of cable and sensor cover.
	The sensor sees the door or other unwanted moving	Remove the objects if possible.
	objects.	Change radar field size, angle, or immunity.

#### OTHER

E8 displaying in error log (no LED or LCD menu indication)	Non-fatal error (upon sensor power-up or after power cycle)	For software versions 2.6 or older, clear the error log.
The LED and the LCD	No power to sensor	Check wiring.
displays are off		Check for correct power supply.
Door cycles open and remains open	Door control monitoring set to Active High.	Set test logic to Active High.
	Safety output is set incorrectly.	Set the safety output required for the door control.
The reaction of the door does not	Incorrect output configuration / wiring.	Ensure that the sensor output configuration matches what the door control is expecting.
correspond with the LED signal		Check sensor wiring.
The LCD or remote control does not react	Batteries dead.	Replace batteries.

#### BEA, INC. INSTALLATION/SERVICE COMPLIANCE EXPECTATIONS

BEA, Inc., the sensor manufacturer, cannot be held responsible for incorrect installations or incorrect adjustments of the sensor/device; therefore, BEA, Inc. does not guarantee any use of the sensor/device outside of its intended purpose.

BEA, Inc. strongly recommends that installation and service technicians be AAADM-certified for pedestrian doors, IDA-certified for doors/gates, and factory-trained for the type of door/gate system.

Installers and service personnel are responsible for executing a risk assessment following each installation/service performed, ensuring that the sensor/device system performance is compliant with local, national, and international regulations, codes, and standards.

Once installation or service work is complete, a safety inspection of the door/gate shall be performed per the door/gate manufacturer's recommendations and/or per AAADM/ANSI/DASMA guidelines (where applicable) for best industry practices. Safety inspections must be performed during each service call – examples of these safety inspections can be found on an AAADM safety information label (e.g. ANSI/DASMA 102, ANSI/DASMA 107, UL294, UL325, and International Building Code).

Verify that all appropriate industry signage, warning labels, and placards are in place.











#### **HOW TO USE THE LCD**

#### DISPLAY DURING NORMAL FUNCTION





negative display = active output



To adjust contrast, push and turn the gray button simultaneously. During normal function only.

#### FACTORY VALUE VS. SAVED VALUE



displayed value = factory value



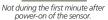
displayed value = saved value

#### **NAVIGATING IN MENUS**

1) Push to enter the LCD menu. 2) Enter password, if necessary. 3) Select language before entering the first LCD menu.













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

Select **More** to go to next level:

- IR menu
- Radar menu
- Outputs & Diagnostics menu

#### 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.

#### HOW TO USE THE REMOTE CONTROL

#### UNDERSTANDING LED ACTIVITY



After unlocking, the red LED flashes and the sensor can be adjusted by remote control.



If the red LED flashes quickly after unlocking, you need to enter an access code from 1 to 4 digits. If you do not know the access code, **cycle the power**. During 1 minute, you can access the sensor without introducing any access code.



To end an adjustment session, always lock the sensor.

#### **ACCESS CODES**



It is recommended to use a different access code for each sensor in order to avoid changing settings on both sensors at the same time.

#### SAVING AN ACCESS CODE -

The access code is recommended for sensors installed close to each other.



#### **DELETING AN ACCESS CODE**



#### **DELETING AN UNKNOWN ACCESS CODE**



#### ADJUSTING ONE OR MORE PARAMETERS



#### CHECKING A VALUE



 ${\bf x}=$  number of flashes = corresponds to the remote control button assignment for the current setting (see page 13 for parameter assignments)

**Example:** For a sensor still programmed to factory default, the value check for AIR Presence Time will result in 2 green LED blinks.

#### RESTORING TO FACTORY VALUES



full reset = restores to factory defaults
partial reset = restores all settings except monitoring and outputs