



ULTIMO
Microwave
Motion and
Presence
Sensor



BEA ULTIMO Microwave Motion and Presence Sensor User Guide

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BEA ULTIMO Microwave Motion and Presence Sensor

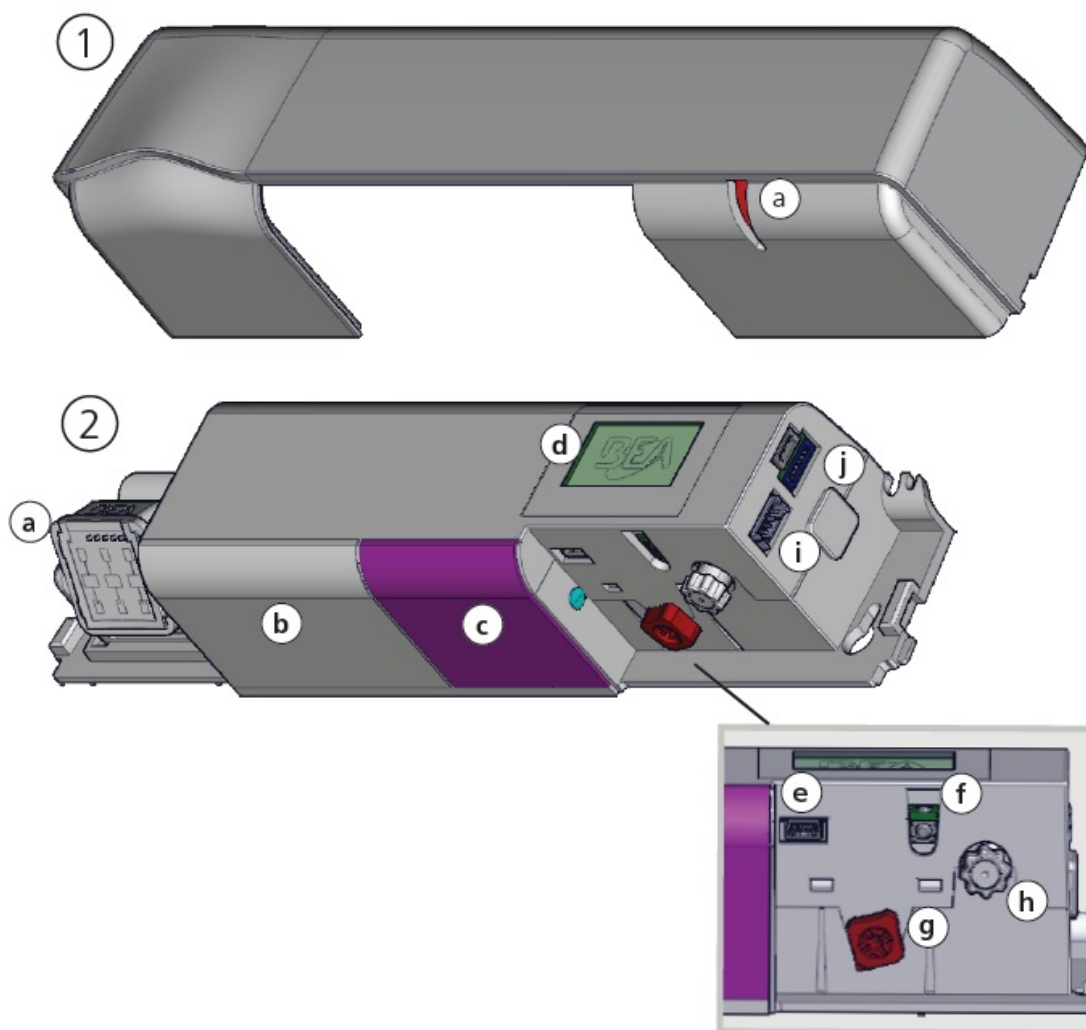


- Visit website for available languages of this document.



ACTIVATION AND SAFETY SENSOR FOR AUTOMATIC, SLIDING DOORS Software version 2.7 / Configuration version 8.0 (refer to Admin menu for product software version)

WHAT'S IN THE BOX



1. cover (10.1351)
 - light pipe
2. sensor (10ULTIMO)
 - radar antenna

- AIR receiver
- AIR emitter
- LCD
- [for internal use only]
- LED
- AIR curtain angle adjustment knob
- main adjustment knob
- main connector
- [for future development]

3. harness (20.5349)

4. screw kit (50.1818)

5. User's Guide (75.0034)

6. Mounting Template (78.7000)



TECHNICAL SPECIFICATIONS

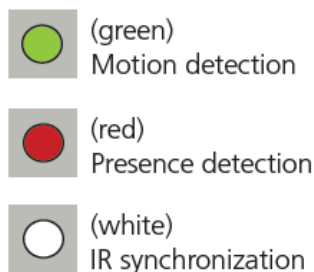
TECHNOLOGY / PERFORMANCE	
Detection mode	motion and presence
Technology	Microwave Doppler radar and active infrared (AIR) with background analysis
Radar detection speed (min.)	2 in/s
AIR response time (typ.)	< 200 ms (max. 500 ms)
Radar transmitter	
frequency	24.150 GHz
radiated power	< 20 dBm EIRP
power density	< 5 mW/cm ²
lobe angles	0 – 45° (typical adjustment), default 25°
AIR spots	
size	2» × 2» (typ.)

number of spots	max. 32 per curtain
number of curtains	3
curtain angles	-3 – 11°, default 0°
Mounting height	6'6" – 11'6" (typ. 7'2»)
Temperature range	-13 – 131 °F *
	0 – 95% relative humidity, non-condensing
	LCD screen is operational from 14 – 131 °F. The sensor may still be pro- gram med in colder temperatures, but with the remote control.
ELECTRICAL	
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
PHYSICAL	
Cable length / gauge	10' / 26 AWG
COMPLIANCE	

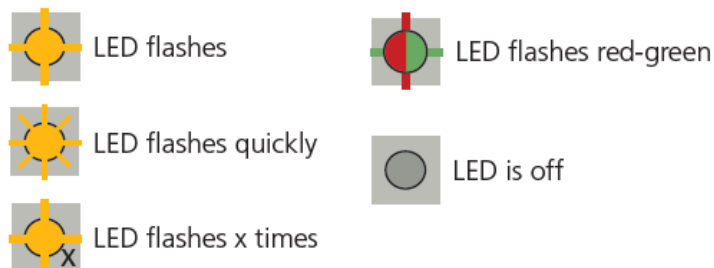
Degree of protection	IP54
Compliance	R&TTE 1999/5/EC; MD 2006/42/EC; LVD 2006/95/EC; ROHS 2 2011/65/EU

LED SIGNALS

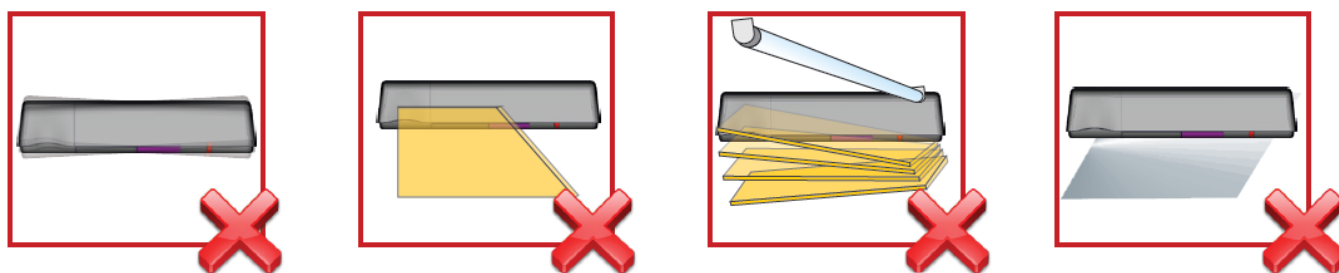
COLORS



BEHAVIORS



INSTALLATION

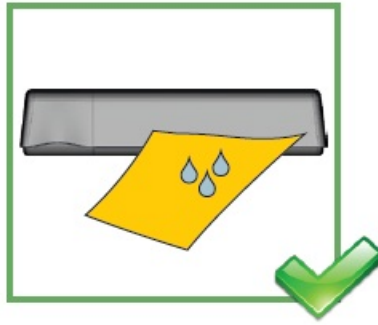


- The sensor should be mounted securely to avoid extreme vibrations.
- Do not cover the sensor.
- Avoid moving objects and light sources in the detection field.
- Avoid highly reflective objects in the infrared field.

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

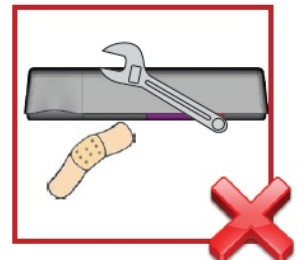
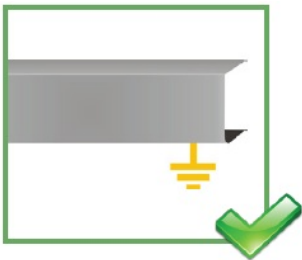
- It is recommended to clean the optical parts at least once a year or more if required due to environmental conditions.



- Do not use aggressive products to clean the optical parts.



SAFETY

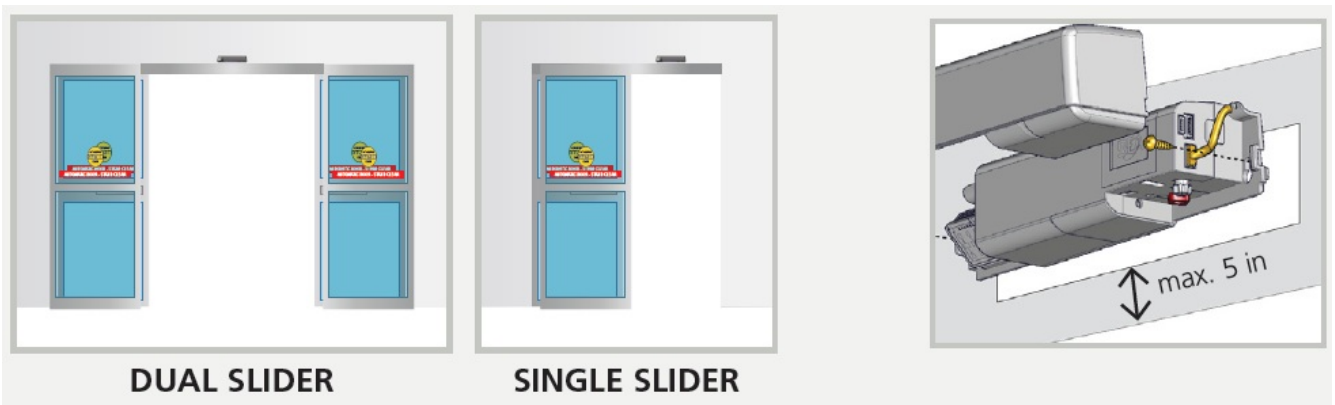


- The door control unit and the header cover profile must be correctly grounded.
- Only trained and qualified personnel are recommended for installation and setup of the sensor.
- Following installation, always test for proper operation (according to ANSI 156.10) before leaving the premises.
- The warranty is invalid if unauthorized repairs are made or attempted by unauthorized personnel.

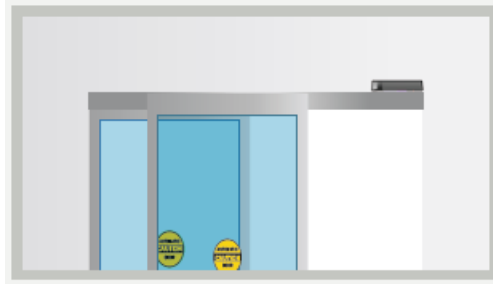
MOUNTING & WIRING

MOUNTING

1. 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.



- 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

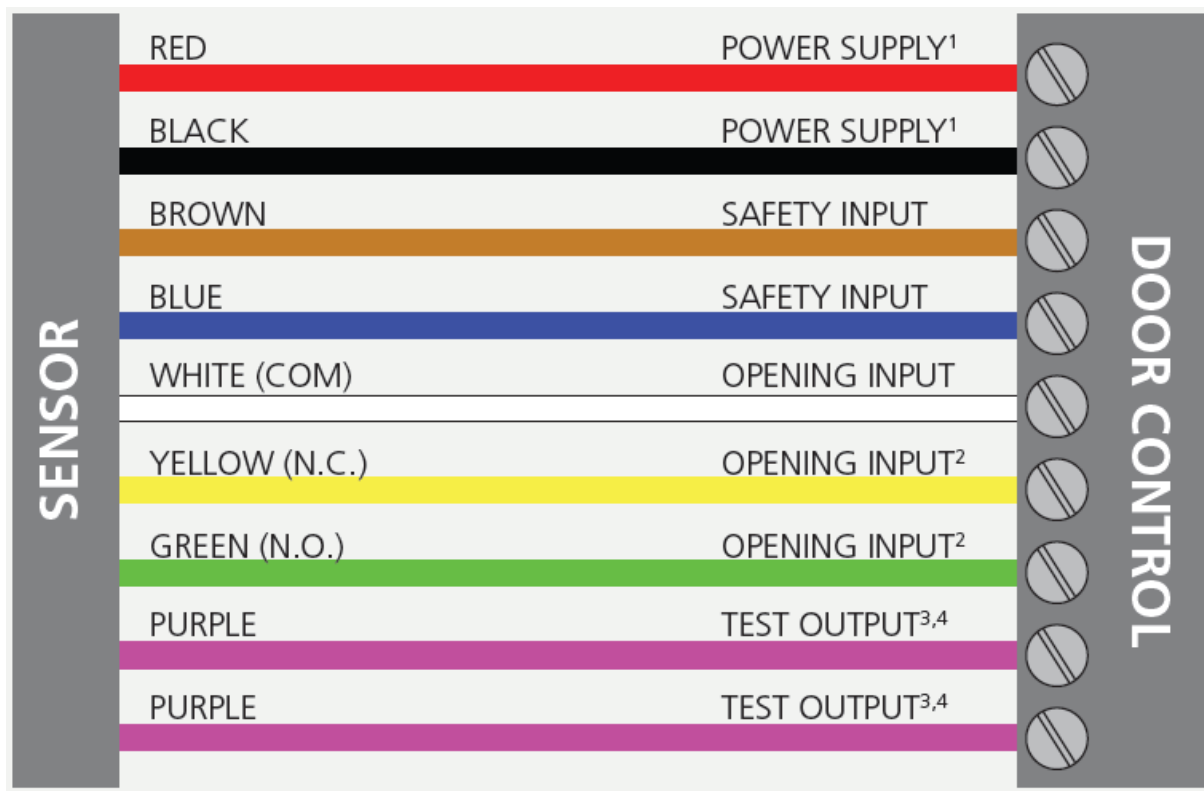


2. Route the harness (20.5349) using the wire stay as shown.



- 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.

WIRING



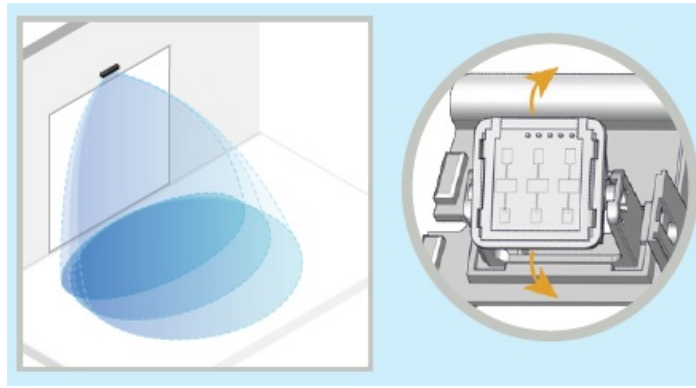
1. Voltage: 12 – 24 VAC, 50/60 Hz; 12 – 30 VDC; < 3.2 W (max) DO NOT EXCEED 26.4 VAC If a power supply is needed, BEA recommends using only the 12V transformer (1012VAC).
2. Use either yellow or green, not both.
3. Test monitoring input: low = < 1 V, high = > 10 V (30 V max.); response time: typ. < 5 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.

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.

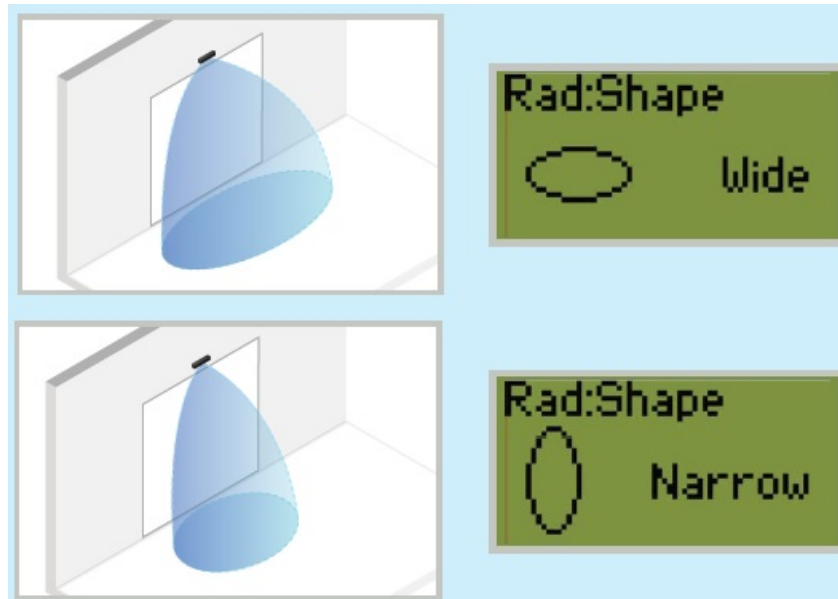
ANGLE

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



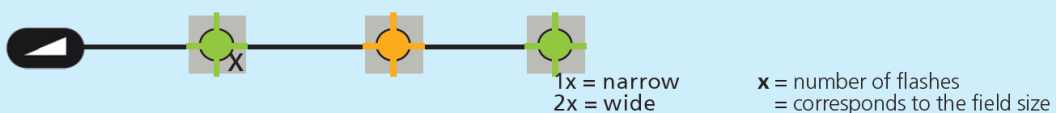
SHAPE

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:



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.

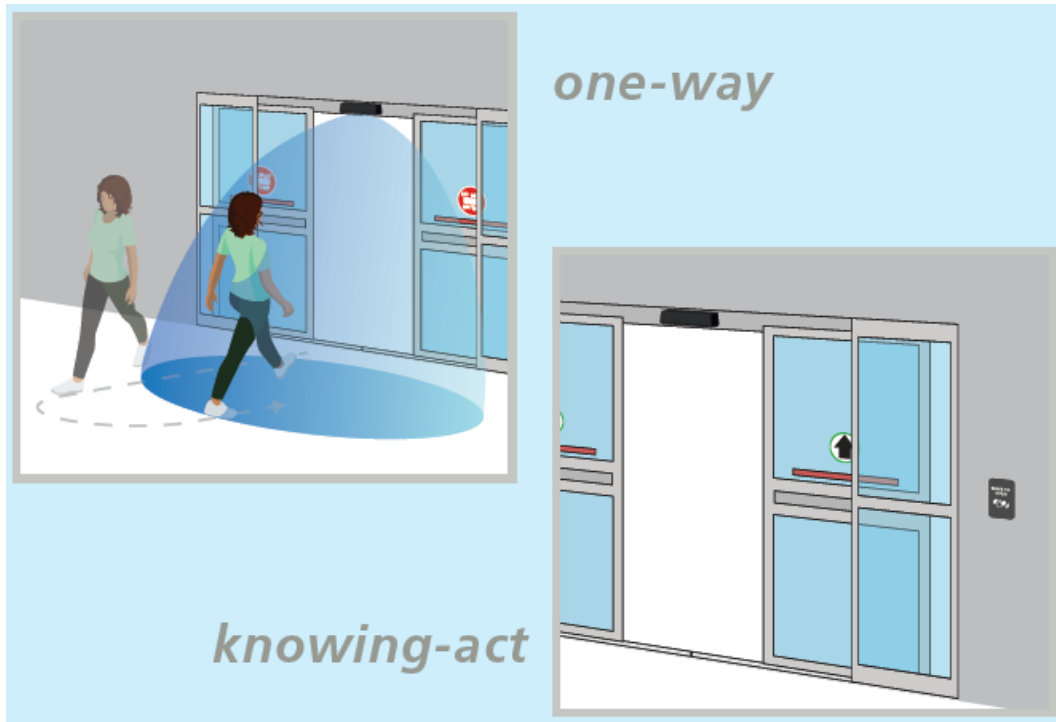
IMMUNITY

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.

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-entry size via the LCD menu options (see page 13).

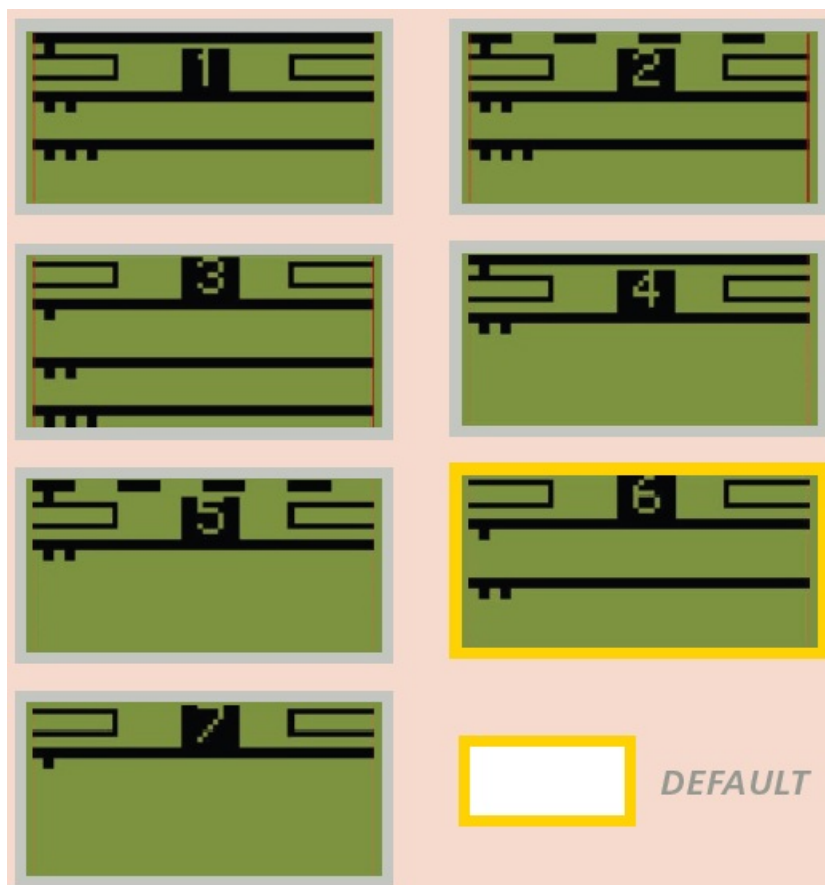


IMPORTANT: The safety circuit of the door must be ignored at the door-closed position.

ACTIVE INFRARED SAFETY FIELD

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


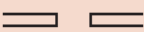


- Choose the number of and position of the AIR curtains based on your application. If necessary, use visible spots and red adjustment knob to position properly (see page 9).



NOTES

The sensor is defaulted to a Non-Threshold setting (6). If the threshold is desired, you may choose to set 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

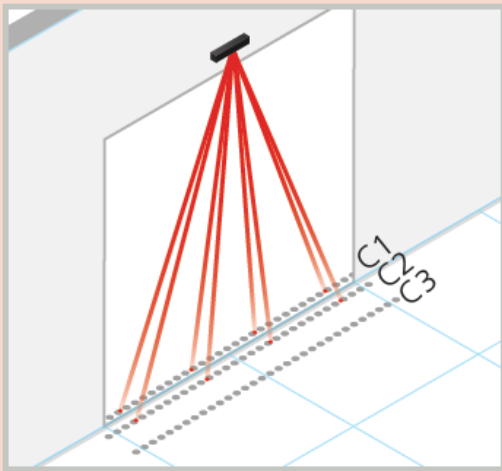
GENERAL SETTINGS	
	<i>the number of squares on a line indicates the curtain number (i.e. C1, C2, or C3)</i>
	<i>the rectangles on each side of the setting number represent sliding door panels</i>
THRESHOLD SETTINGS (1, 2, 4, 5)	
	<i>a dotted line indicates that curtain C1 is active at full open and inactive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

ANGLE

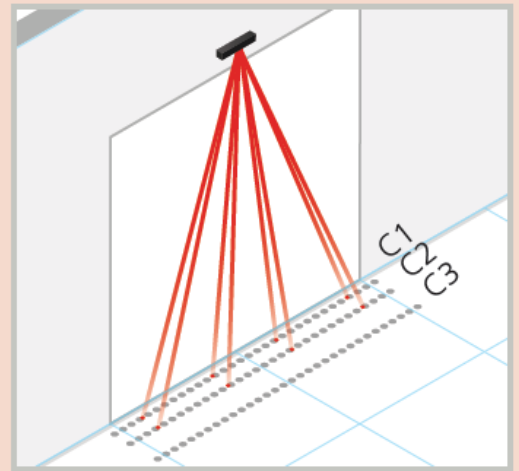
1. Activate the four visible spots (press gray knob twice) to verify the position of the AIR curtains. Visibility depends on external conditions. When spots are not visible, use the Spotfinder to locate the curtains.



THRESHOLD

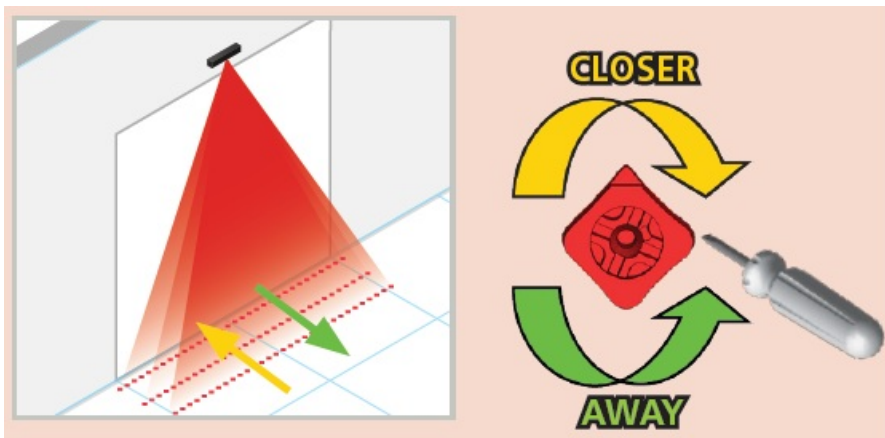


NON-THRESHOLD

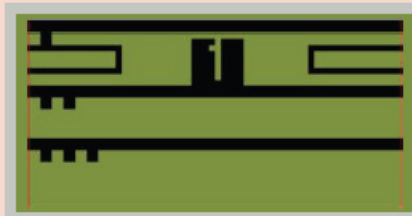


- If necessary, adjust the AIR curtain angles using the red adjustment knob (see below) and then select the corresponding IR: Curtains setting on menu 1 of the LCD (see right).

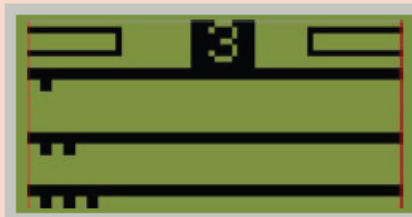
NOTE: Be sure that setting shown on the LCD matches the AIR curtain position.



THRESHOLD



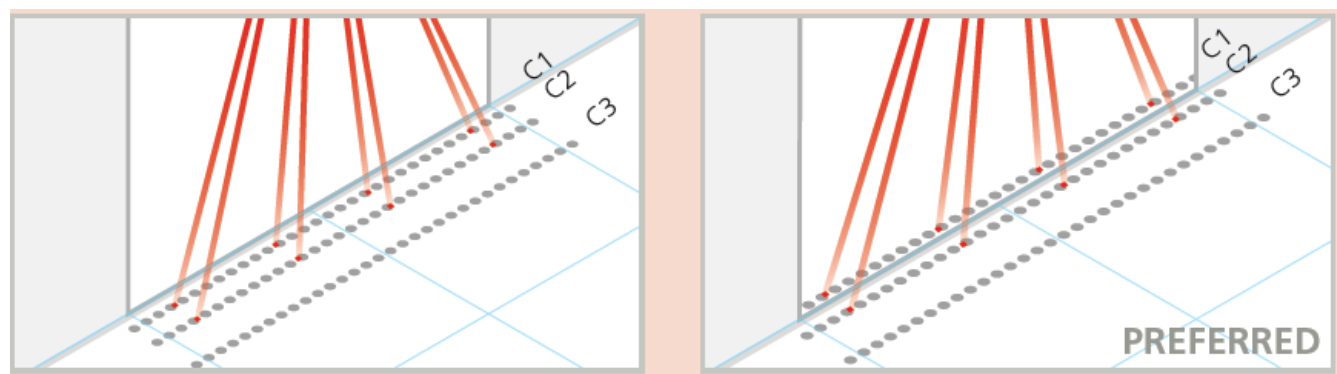
NON-THRESHOLD



default

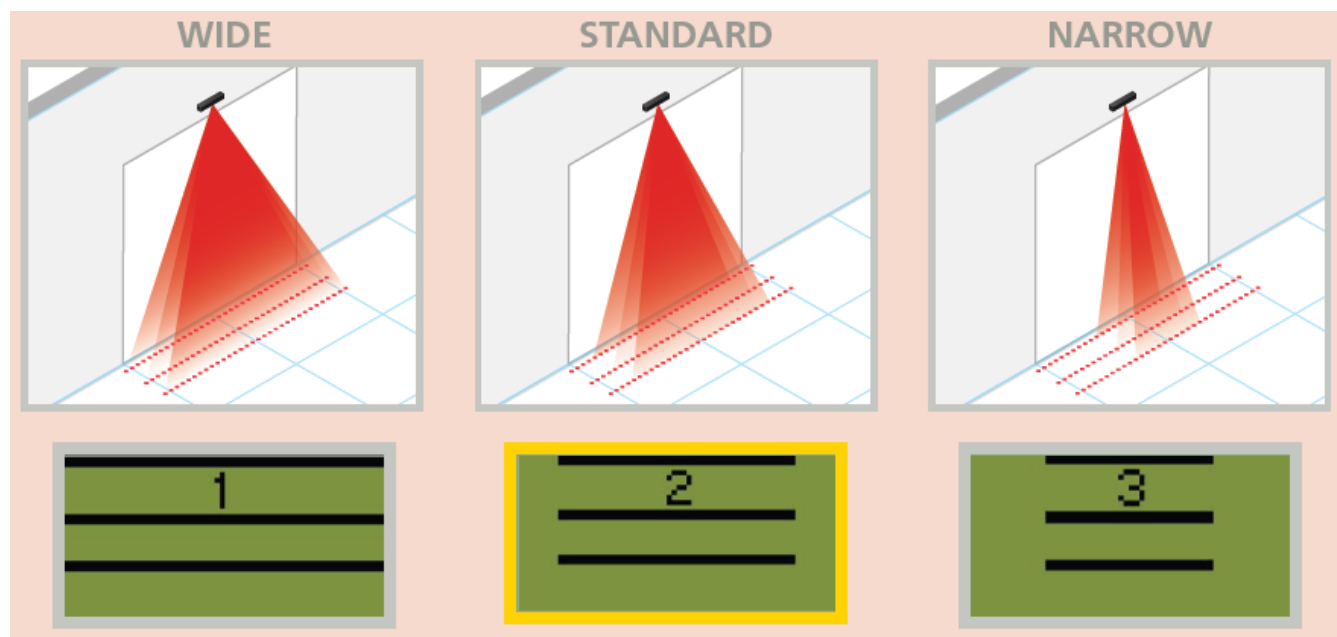
- When in Threshold mode, verify the correct positioning of the threshold curtain: First, turn on the red spots, and then verify that either C1 is at least in line with the moving door panel (see image below, left) or *preferred*

through the door opening (see image below, right). Next, ensure that C2 is within 3 inches of face of the door for the width of the door opening.

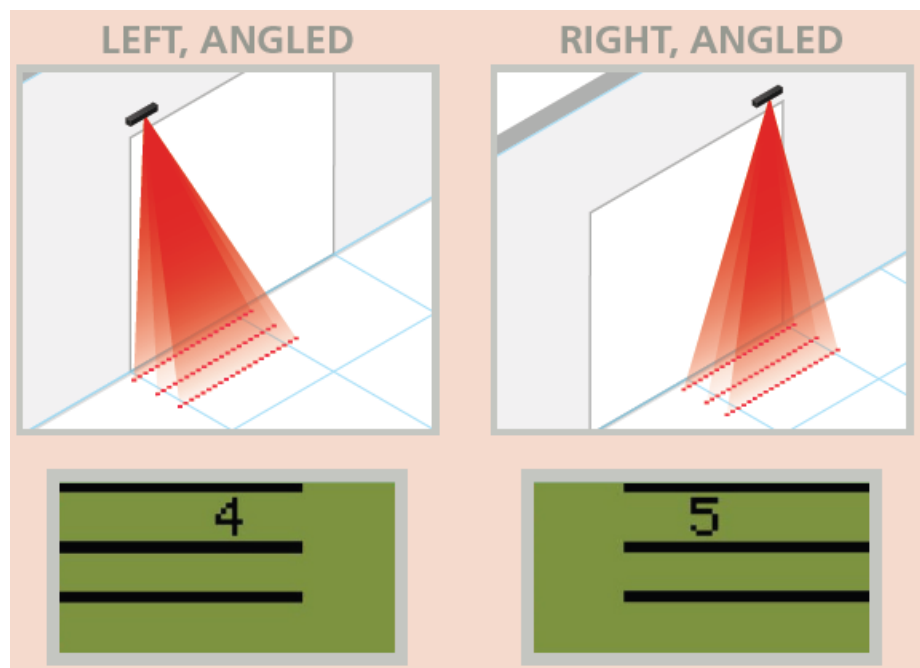


WIDTH

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



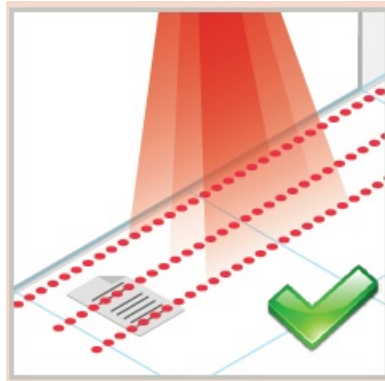
- The size of the detection field varies according to the mounting height and the settings of the sensor. The widths specified above correlate to the standard mounting height (7'2").



- Settings 4 and 5 are only optional in single-slider applications.



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.

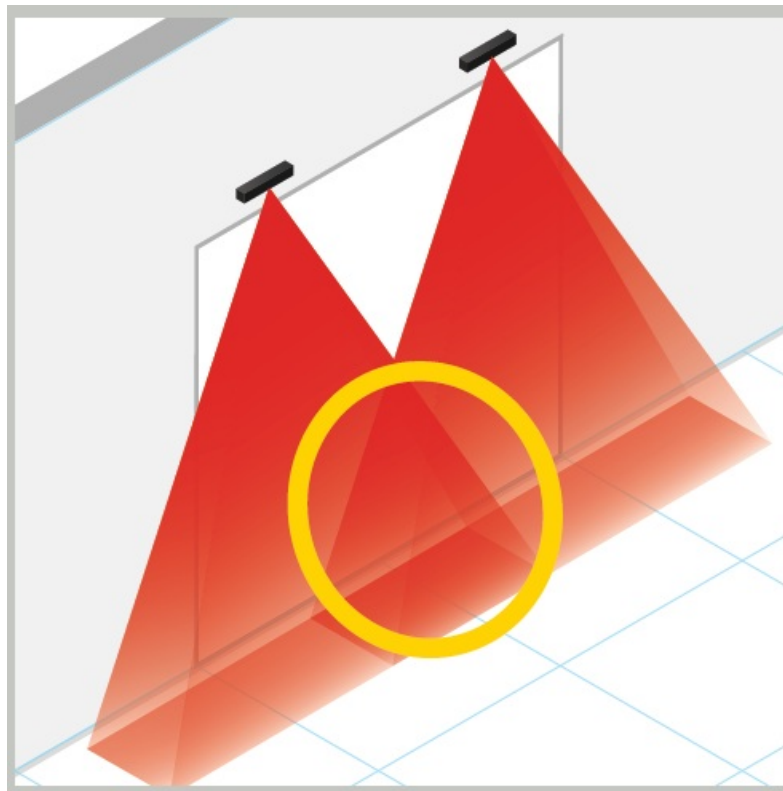


- Additional adjustments are possible by LCD or remote control (see OVERVIEW OF SETTINGS).

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.

SETUP

Ensure that the infrared field is clear of any obstructions.

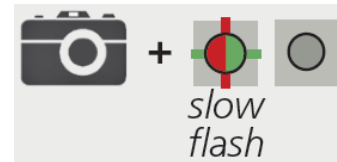
The sensor can be set up using either the push button or the remote control:



- **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 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 the LCD menu or remote control.

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

1. For use with IXIO software version 5.0 or higher; ensure that the IXIO is set to freq A
2. For use with IXIO software version 5.0 or higher; ensure that the IXIO is set to freq B
3. For use with IXIO software version 5.0 or lower; ensure that the IXIO is set to freq A
4. For use with IXIO software version 5.0 or lower; ensure that the IXIO is set to freq B
5. For use with non-BEA sensors

RADAR SETTINGS □ ■ □		0	1	2	3	4	5	6	7	8	9
Rad:Fieldsize	➡	small	>	>	>	>	>	>	>	>	large
Rad:Direction	↔		BI <>	UNI >	MTF <						
Rad:Shape	➡	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>									
Rad:Immunity	⏻		low	>	>	>	>	>	>	>	high
Rad:Reentry	⏻	small	>	>	>	>	>	>	>	>	large

SETTINGS (cont.)

OUTPUTS & DIAGNOSTICS SETTINGS □ □ ■		0	1	2	3	4	5	6	7	8	9
Out1Funct	F1	RAD	RAD or IR								
Out1Logic	⏻		N.O.	N.C.	N.C.	N.O.					
Out2Logic	⏻		N.C.	N.O.	N.C.	N.O.					
Out1HoldTime	⌚	0.5 sec	1 sec	2 sec	3 sec	4 sec	5 sec	6 sec	7 sec	8 sec	9 sec
Out2HoldTime	⏻	0.5 sec	1 sec	2 sec	3 sec	4 sec	5 sec	6 sec	7 sec	8 sec	9 sec
InTestLogic	⏻	Active High	Active Low								
InTestMode ¹	AB	off	on	auto							
Admin menu	⏻	see next page									
Error log	⏻	last 10 errors + day indication									
IR:Synch	⏻	status of IR synchronization									
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									
IR:C3 Energ.	⏻	signal amplitude received on curtain 3									
IR:ReactTime	⏻	reactivity speed of infrared in relation to immunity and environment									
PowerSupply	⏻	supply voltage at power connector (shown in DC volts only)									
Reset log	⏻	no	yes								
FactoryRst ²	⏻									full	partial

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

SETTINGS (cont.)

ADMIN SETTINGS		password: 1234
<div> <div></div> <div></div> <div></div> <div></div> </div>		
ID #	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 code ¹ for BEA technical support	

NOTES

1. ZIP code = a numerical identifier that contains the sensor's current parameters in a zipped format

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.



RED Visible External Monitoring (Test Indication LED) does not flash

Monitoring installation/setup error.

Verify door control is capable of monitoring and the sensor monitoring wires are properly connected to the door control.

Verify monitoring (TEST) is ON in the sensor settings.

Sensor malfunction.

Replace the sensor.



RED Visible External Monitoring (Test Indication LED) flashes continuously

Wiring issue.

Verify wiring.

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 closing 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 opening 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 closing 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 opening cycle

Increase tilt angle of the interfering curtain to move the curtain away from the threshold (see pages 8 – 9).

ORANGE LED

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

GREEN LED



GREEN LED illuminates sporadically

The sensor is disturbed by rain and/or leaves.

Increase radar immunity filter and adjust the radar field angle.

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 objects.

Remove the objects if possible.

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 displays are off

No power to sensor

Check wiring.

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 correspond with the LED signal

Incorrect output configuration / wiring.

Ensure that the sensor output configuration matches what the door control is expecting.

Check sensor wiring.

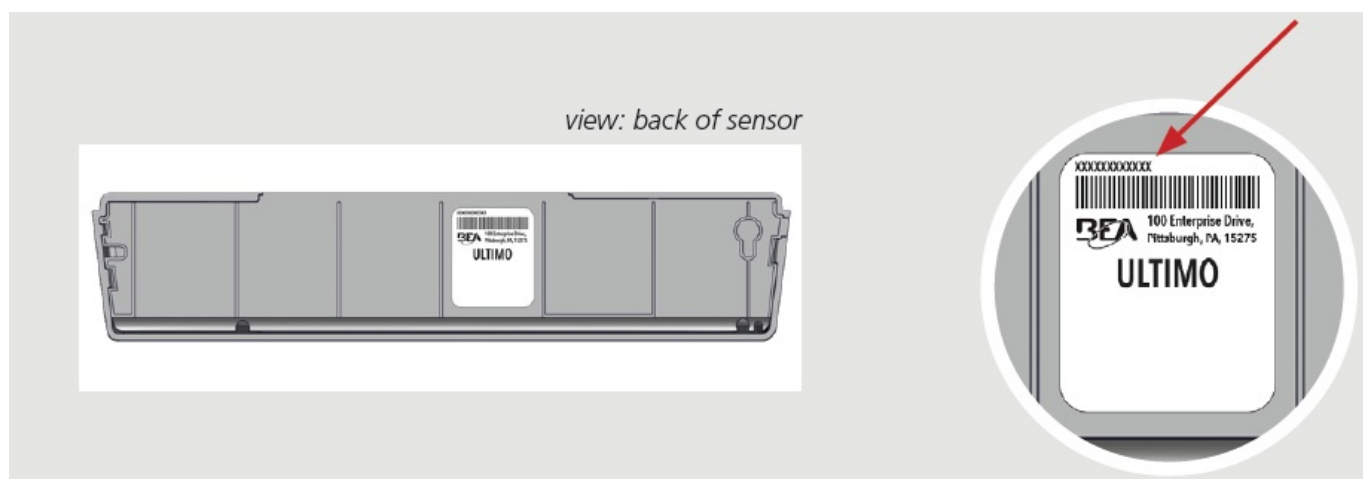


The LCD or remote control does not react

Batteries dead.

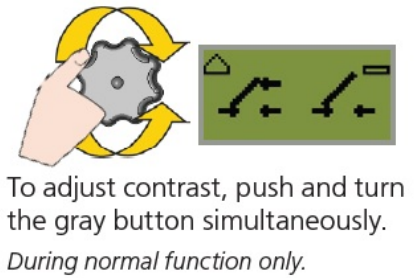
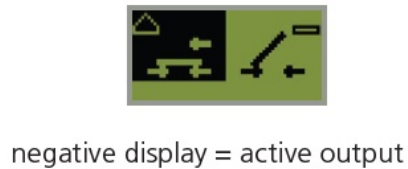
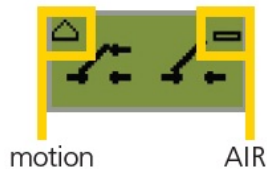
Replace batteries.

Before contacting BEA Technical Support, locate the serial number of your sensor.



HOW TO USE THE LCD

DISPLAY DURING NORMAL FUNCTION



FACTORY VALUE VS. SAVED VALUE



NAVIGATING IN MENUS

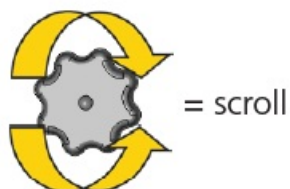
1. Push to enter the LCD menu.
2. Enter the password, if necessary.
3. Select the language before entering the first LCD menu.



Not during the first minute after power-on of the sensor.



- Select Back to return to the previous menu or display.
- Select More to go to the 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



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

ACCESSORIES AND REPLACEMENT PARTS

ACCESSORIES



10ULTIMOSPACER

Spacer



10URA

Universal rain accessory



10UMB

Mounting bracket



10RETROFITSPACER

Retrofit Spacer Kit
(includes spacer, 2.5" harness, and 9" harness)



10REMOTE

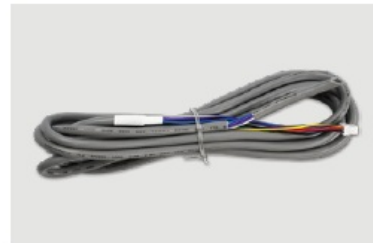
BEA universal remote control

REPLACEMENT PARTS



10.1351

Replacement cover



20.5349

Replacement harness


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 the 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.

- **Tech Support:** 1-[800-407-4545](tel:8004074545)
- **Customer Service:** 1-[800-523-2462](tel:8005232462)
- **General Tech Questions:** techservices-us@BEAsensors.com
- www.BEAsensors.com

Documents / Resources

	<p>BEA ULTIMO Microwave Motion and Presence Sensor [pdf] User Guide 75.0034.09, 10ULTIMO, 20.5349, 50.1818, 75.0034, 78.7000, ULTIMO Microwave Motion and Presence Sensor, ULTIMO, Microwave Motion and Presence Sensor, Motion and Presence Sensor, Presence Sensor, Sensor</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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