

BEA 10EARA Eagle Artek Unidirectional Opening Sensor Instruction Manual

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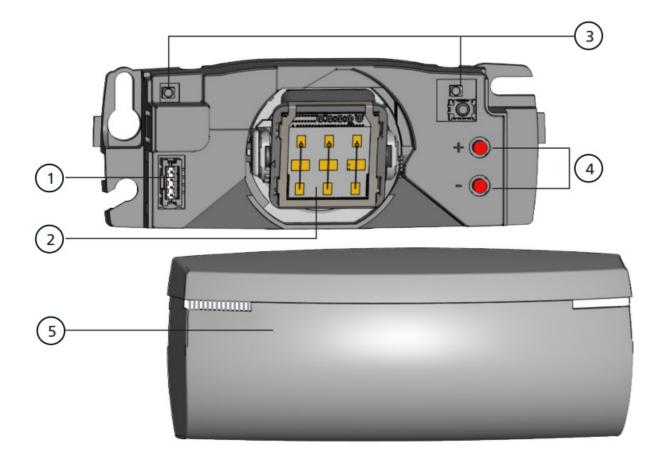
BEA 10EARA Eagle Artek Unidirectional Opening Sensor Instruction Manual



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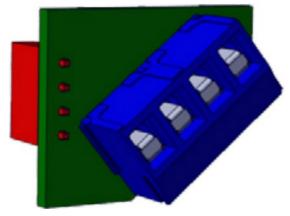
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Product Overview



- 1. main connector
- 2. antenna
- 3. LEDs
- 4. push buttons
- 5. cover

retrofit interface



harness (35.1563)



ACCESSORIES

• Rain accessory

10EARA



• Ceiling accessories

10EACA (white) 10EACA-BLK (black)



• Replacement covers

35.0303 - black

35.0319 - white

35.0320 - silver



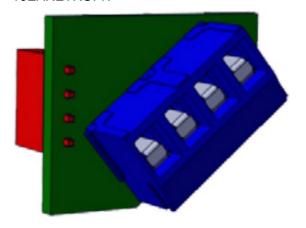
Bracket accessory

10EABA



· Retrofit interface

10EARETROFIT



EAGLE ARTEK

Next Generation Motion Sensor For Automatic Sliding And Swing Doors

EAGLE ARTEK is equipped with BEA's DRO Radar technology that provides full digital adjustment of the radar fi eld shape eliminating the need to swap antennas manually. Many hours of research, development and testing have been invested to create and develop the Artek technology. Thanks to the know-how of our engineers, this active digital antenna takes motion detection to the next level. The robust and sustainable design, cutting edge electronics and software allow for precision, reliability, and more flu edibility.

Other benefits include:

- Robust & sustainable design
- · Cutting edge electronics
- In-House production for better quality control and supply chain autonomy

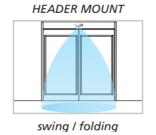
Our goal is to provide you with user-friendly solutions. EAGLE ARTEK comes with the following improvements:

- Compact design Allows discreet integration with all types of door control, even the slimmest ones
- Utilizing ARTEK technology developed by BEA and based on the EAGLE, this antenna inherits the stability and fl edibility of our motion sensors
- Electronic management of the radar fi led shape and push-button adjustments for detection fi led allow for quick installation and setup
- Same mounting references and plug-in interface accessory make it easy to retrofit t EAGLE



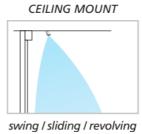
TECHNOLOGY / PERFORMANCE							
Technology	microwave						
Detection mode	motion						
Transmitter frequency:	24.15 GHz						
Transmitter radiated power:	< 20 dBm EIRP						
Transmitter power density:	< 5 mW/cm ²						
Max. detection range:	wide: 13' × 6.5'narrow : 6.5' × 7' (@ 7' high)						
Min. detection speed:	2 in/s						
ELECTRICAL							
Supply voltage*:	12 - 24 VAC ±10% (50 - 60 Hz)12 - 24 VDC +30% / -10%						
Max. power consumption:	< 1 W						
Output*:	solid-state relay (free of polarity)						
Max. switching voltage:	30 VAC / 42 VDC						
Max. switching current:	100mA (resistive)						
PHYSICAL							
Mounting height:	6 – 13'						
Tilt angles:	0 – 90° vertical-30 – 30° lateral						
Temperature range:	-4 – 131 °F (-20 – 55 °C)						
Dimensions:	4.72" (L) × 1.96" (H) × 1.96" (W)						
Material:	ABS						
Weight:	120 g						
Cable length:	8'						
COMPLIANCE							
Degree of protection:	IP54 (IEC 60529)						
FCC certification:	FCC: G9B-100606 IC: 4680A-100606						
External electrical sources must be within specified voltages, max 100 W, and ensure double insulation							

MOUNTING OPTIONS









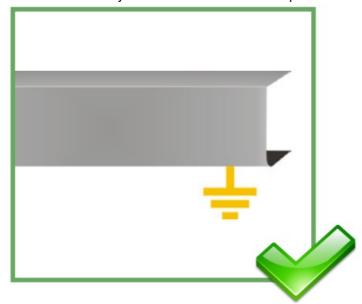
PRECAUTIONS



- Shut off all power going to header before attempting any wiring procedures.
- Maintain a clean and safe environment when working in public areas.
- Constantly be aware of pedestrian traffic around the door area.
- Always stop pedestrian traffic through the doorway when performing tests that may result in unexpected reactions by the door.
- ESD (electrostatic discharge): Circuit boards are vulnerable to damage by electrostatic discharge. Before handling any board, ensure you dissipate your body's ESD charge.
- Always check placement of all wiring before powering up to ensure that moving door parts will not catch any
 wires and cause damage to equipment.
- Ensure compliance with all applicable safety standards (i.e. ANSI A156.10) upon completion of installation.
- DO NOT attempt any internal repair of the components. All repairs and/or component replacements must be performed by BEA, Inc. Unauthorized disassembly or repair:
 - 1. May jeopardize personal safety and may expose one to the risk of electrical shock.
 - 2. May adversely affect the safe and reliable performance of the product resulting in a voided warranty.

INSTALLATION TIPS

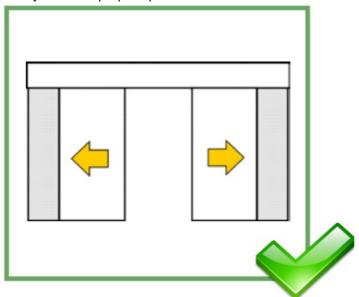
The door control system and the header cover profile must be correctly grounded.



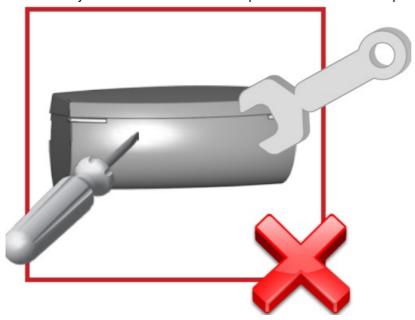
Only trained and qualified personnel are recommended to install and set up the sensor



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



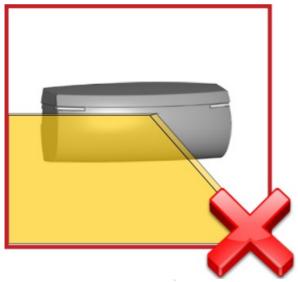
The warranty is invalid if unauthorized repairs are made or attempted by unauthorized personnel.



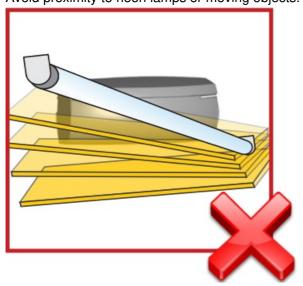
Avoid vibrations.



Do not cover the sensor



Avoid proximity to neon lamps or moving objects.



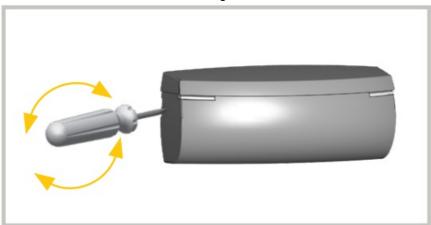
CLEANING & MAINTENANCE

Do not use harsh cleaning agents.



OPENING THE SENSOR

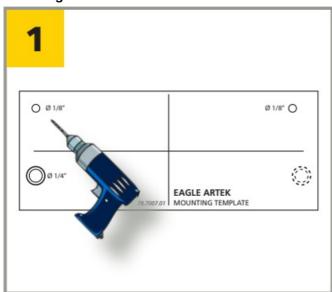
Insert the screwdriver on the left or right notch of the sensor and twist to remove the cover.



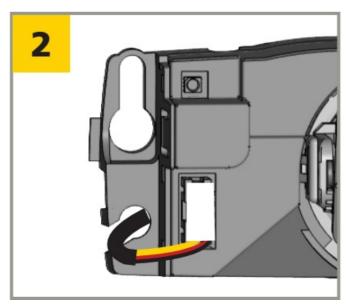
MOUNTING & WIRING

Using the mounting template, drill the cable pass-thru hole and 2 mounting holes.

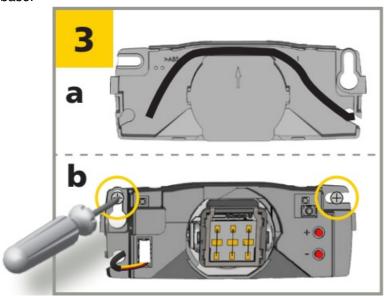
Cable pass-thru: Ø 1/4" Mounting holes: Ø 1/8"



Pull the cable through the pass-thru hole, and plug in the connector accordingly

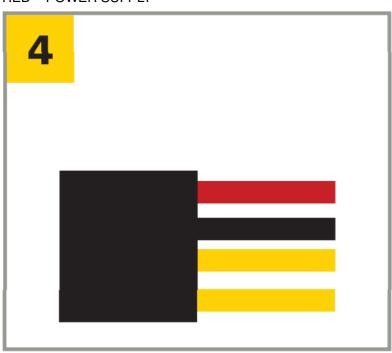


a) Route the cable relative to the pass-thru hole. To avoid damage, use the dedicated cable path on the sensor base.



 $\ensuremath{\mathbf{b}}\xspace)$ Secure the sensor by hand tightening the mounting screws.

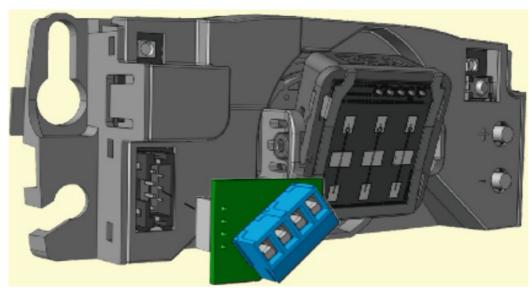
1. RED – POWER SUPPLY



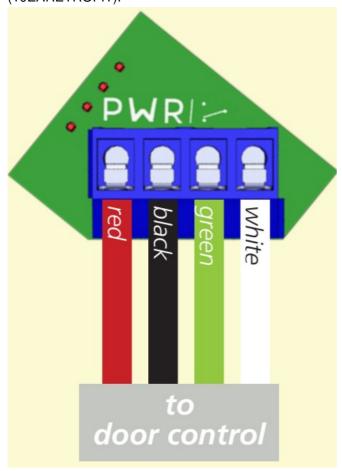
- 2. BLACK POWER SUPPLY
- 3. YELLOW ACTIVATION
- 4. YELLOW ACTIVATION

Wire to the door controller. Logic selectable via remote control (see following page)

RETROFITTING: OPTIONAL HARDWIRING

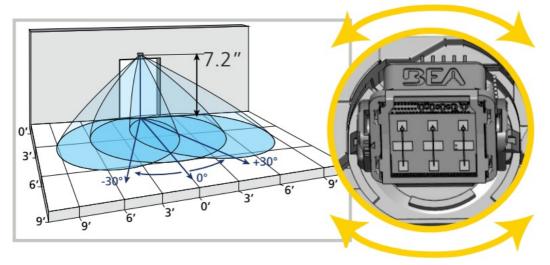


If you wish to utilize the existing cable from the door control, simply install the Retrofit Interface module (10EARETROFIT).

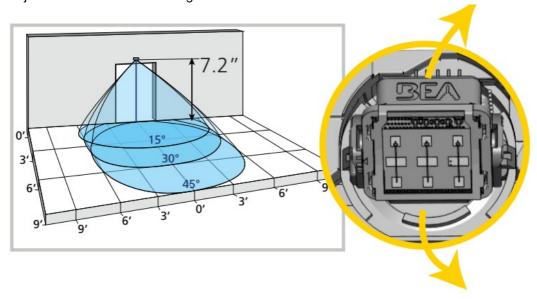


FIELD ANGLE ADJUSTMENTS

Adjust the lateral antenna angle.



Adjust the vertical antenna angle.



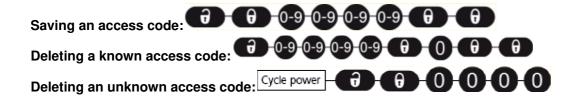
SETTINGS

via REMOTE CONTROL

		0	1	2	3	4	5	6	7	8	9
FIELD SIZE		XXS	XS	S	>	>	>	>	L	XL	XXL
FIELD SHAP E To query the specific width, press. The sensor will blink the number of times that it is set to, and then the green LED will blink either 1 time (narrow shape) or 2 times (wide shape). Example: If FIELD SIZE = large and FIELD SHAPE = narrow, the LED with blink 7 time s, and then 1 time.											
MOUNTING HEIGHT	D		< 10 ft	> 10 ft							
IMMUNITY F ILTER	«□»		low	norma I	high	>	>	>	>	>	highes t
DETECTION MODE	(E)		bi	uni	uni M TF	uni A WAY	MTF & AW AY	bi = two-way detectionuni = one- way detection towards sensoria MTF = one-way detection with m otion-tracking featuring AWAY = o ne-way detection away from sens or			
OUTPUT CO NFIG	G		NO	NC							
HOLD-OPEN TIME	0	0.5 s	1 s	2 s	3 s	4 s	5 s	6 s	7 s	8 s	9 s
DOOR CON TROL	E 2		auto	open	closed			open = sensor detects constantly, LED onclosed = sensor is in stan dby and does not detect, LED off			
FACTORY R ESET										full	partial *

ACCESS CODE

The access code (1 to 4 digits) is recommended to set sensors installed close to each other.

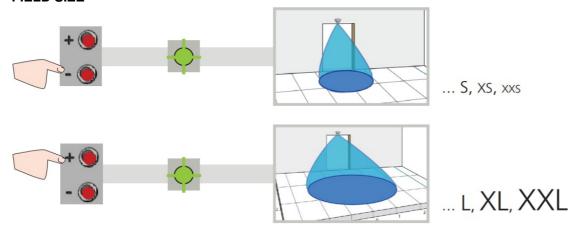


Once you have saved an access code, you must always enter this code to unlock the sensor.

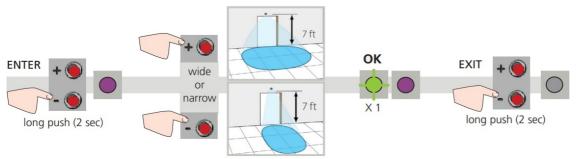
If you forget the access code, cut and restore the power supply. Within 1 minute, you can access the sensor without introducing any access code.

SETTINGS (cont.)

via PUSH BUTTONS FIELD SIZE



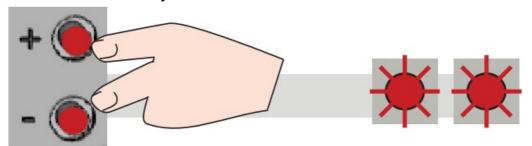
FIELD SHAPE



IMMUNITY



FACTORY RESET - full reset only



long push (4 sec)

TROUBLESHOOTING

	Sensor power is off	Check the wiring and the power supply.				
Door remains close d, LED off	Door control (F2) is set to 3 (close d)	Change the door control setting (F2) to value 1 (automatic).				
Door does not rea	Incorrect output configuration on t he sensor	Change the output configuration setting on each sensor that is connected to the door operator.				
Door does not reac t as expected	Wire to the antenna is disconnected or damaged	 Check wire to the antenna. If damaged, replace sensor. 				
Door opens and cl oses repeatedly	The sensor is disturbed by the doo r motion or vibrations caused by th e door motion	 Ensure the sensor is secured. Ensure the detection mode is unidirectional. Increase antenna angle. Increase immunity filter. Reduce field size. 				
Door opens for no apparent reason	Sensor detects rain	Ensure detection mode is unidirectional. Increase immunity filter.				
	Sensor detects objects outside of i ts detection field (in highly reflectiv e environment)	 Change antenna angle. Decrease field size. Increase immunity filter. 				
	Sensor detects movement of the o pposite door (in an airlock vestibul e)	 Change antenna angle. Adjust field shape. Increase immunity filter. 				
LED flashes quickl y after unlocking	Sensor requires access code to u nlock	 Enter the correct access code. If you forgot the code, cut and restore the power supply to access the sensor without access code. Change or delete the access code. 				
Sensor does not respond to remote contr	Weak or incorrectly installed batte ries	Check batteries and change if necessary.				
ol	Remote control not aimed at sens or	Point the remote control towards the sensor.				
Door remains open, LED stays on	Door control is set to "open"	Set the door control to "auto" (see pg. 8).				

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.











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General Tech Questions: techservices-us@BEAsensors.com

Tech Docs: www.BEAsensors.com



Documents / Resources



BEA 10EARA Eagle Artek Unidirectional Opening Sensor [pdf] Instruction Manual 10EARA, 10EACA, 10EACA-BLK, 10EABA, 10EARETROFIT, 10EARA Eagle Artek Unidirection al Opening Sensor, Eagle Artek Unidirectional Opening Sensor, Artek Unidirectional Opening Sensor, Unidirectional Opening Sensor, Opening Sensor, Sensor

References

- Manage | BEA Sensors
- User Manual

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