EAGLE
20240412
Unidirectional
Activation Sensor
for Automatic

EAGLE 20240412 Unidirectional Activation Sensor for Automatic Installation Guide

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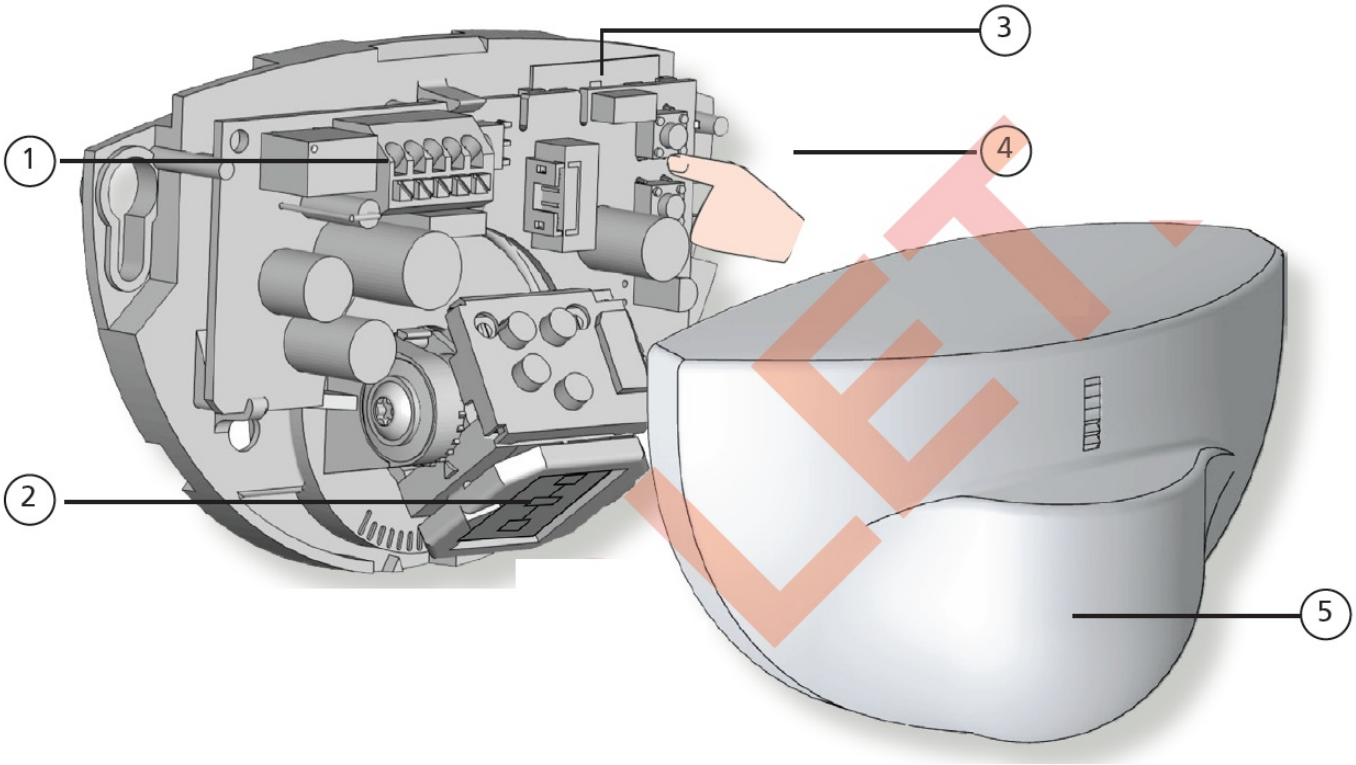


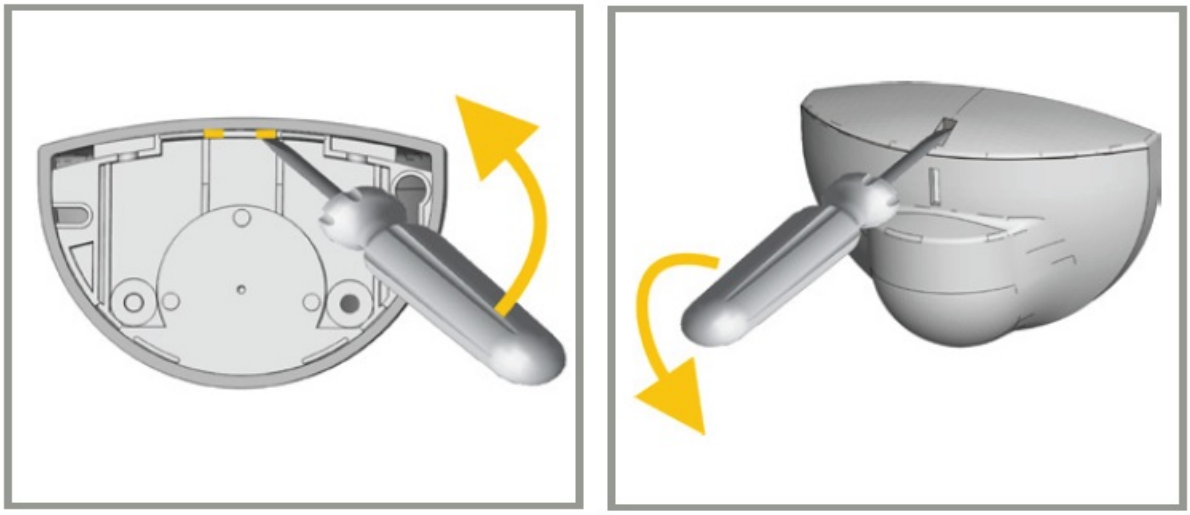
TECHNICAL SPECIFICATIONS

Technology:	microwave and microprocessor
Transmitter frequency:	24.150 GHz
Transmitter radiated power:	< 20 dBm EIRP
Transmitter power density:	< 5 mW/cm²
Detection mode:	motion
Min. detection speed:	2 in/s
Supply voltage:	12 – 24 VAC ±10%; 12 – 24 VDC +30% / -10%
Mains frequency:	50 – 60 Hz
Max power consumption:	< 2 W
Output: max. contact voltage: max. co ntact current: max. switching power:	relay (free of potential changeover contact) 42V AC/DC 1A (resistive) 30W (DC) / 60VA (AC)
Mounting height:	6’ – 13’
Degree of protection:	IP54
Temperature range:	-4 – 131 °F
Dimensions:	4.7″ (L) × 3.1″ (H) × 2.0″ (W)
Tilt angles:	0 – 90° vertical; -30 – 30° lateral
Material:	ABS
Weight:	7.6 oz
Cable length:	8’
Norm conformity:	R&TTE 1999/5/EC, LVD 2006/95/EC, RoHS 2 2011/65/EU

INSTALLATION TIPS

- Do not touch electrical parts.
- Avoid vibrations.
- Do not cover the sensor.
- Avoid proximity to neon lamps or moving objects.
- The sensor may be mounted horizontally or vertically (e.g. on a ceiling or on a wall, respectively).
    - If mounting horizontally, the sensor must be mounted in front of the door.
    - If mounting vertically, the sensor must be mounted above the door.

How to Open the Sensor

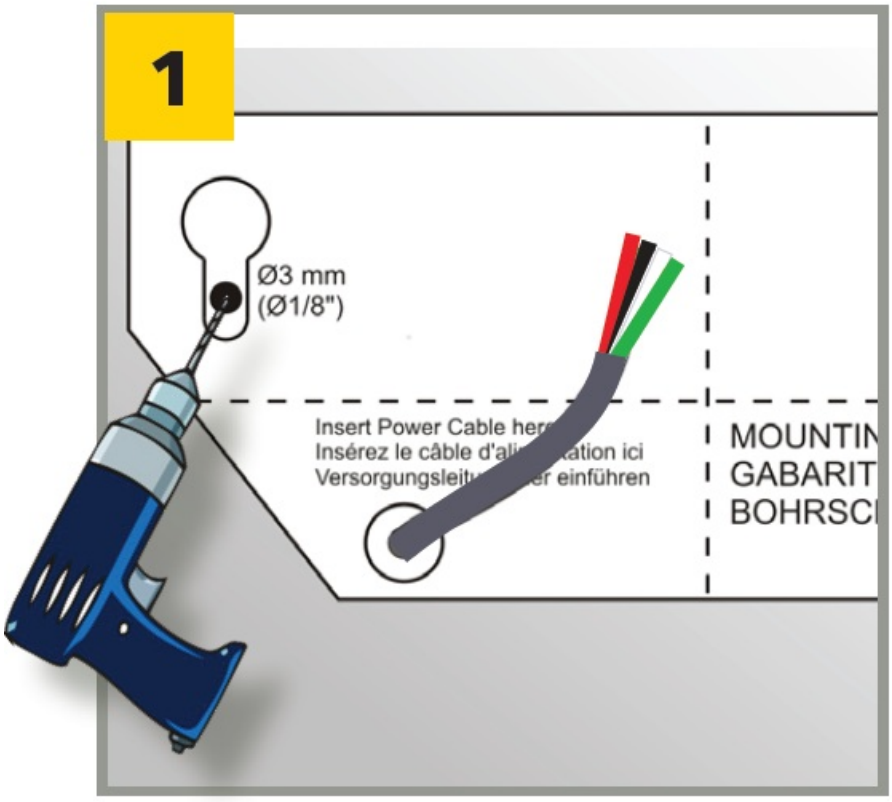


BEFORE MOUNTING AFTER MOUNTING

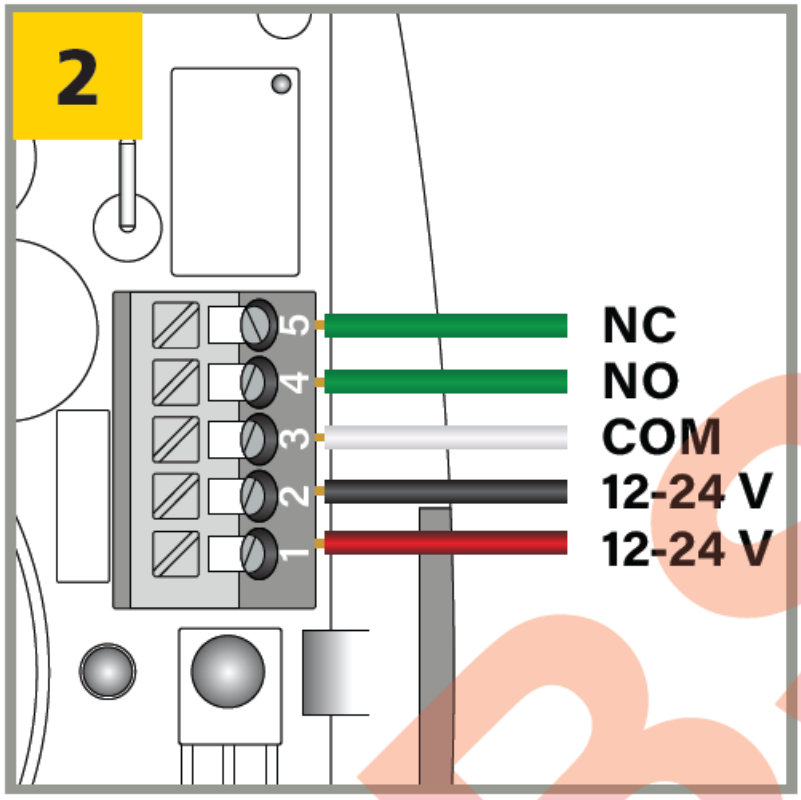
MOUNTING & WIRING

If using EAGLE SPACER or EAGLE SPACER V, please refer to User's Guide 75.5981 before beginning.

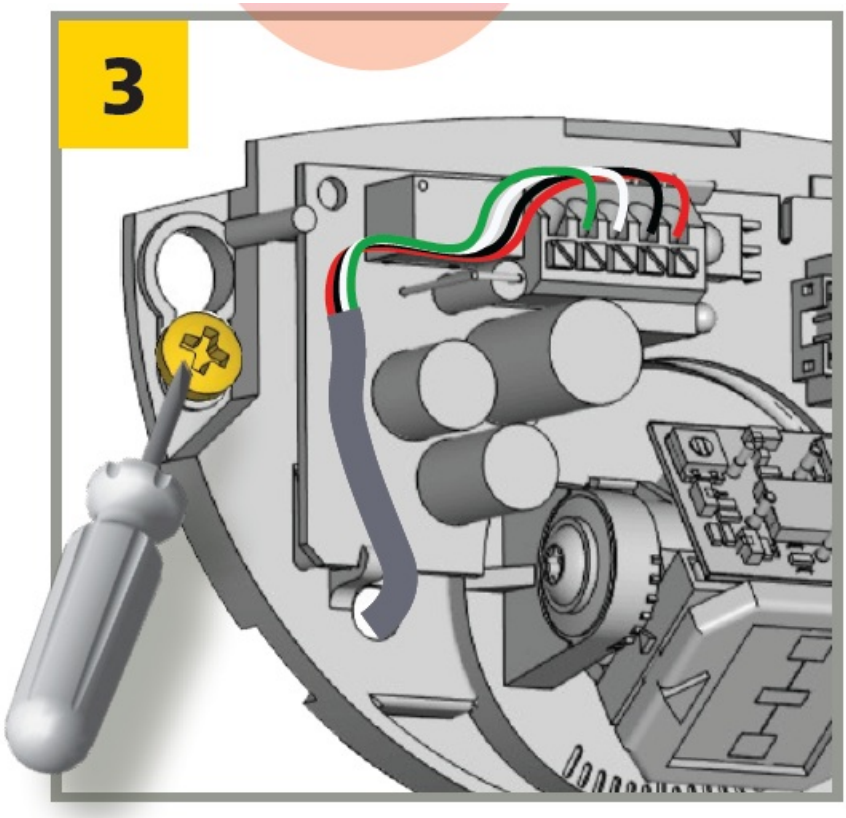
Apply the mounting template.
Drill 1 hole for the cable and pull it through.
Drill 2 holes for the screws.



Connect the wires accordingly:
1: RED – POWER SUPPLY (+)
2: BLACK – POWER SUPPLY (-)
3: WHITE – COM
4: GREEN – NO OR 5: GREEN – NC

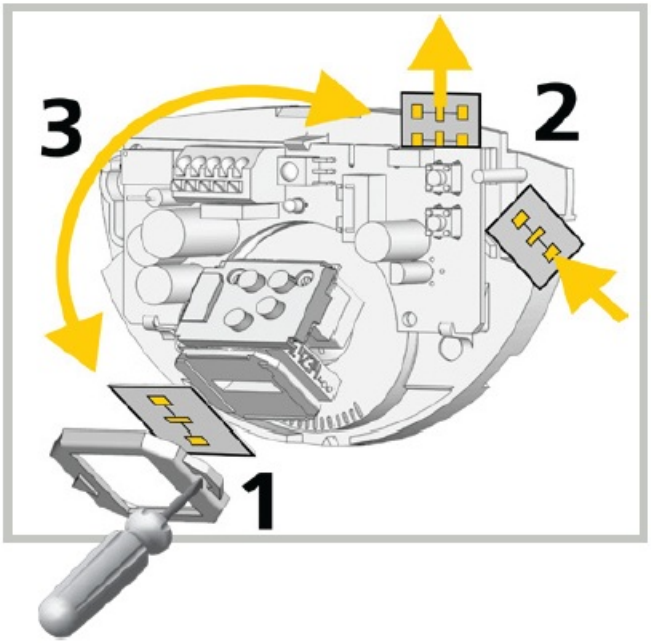


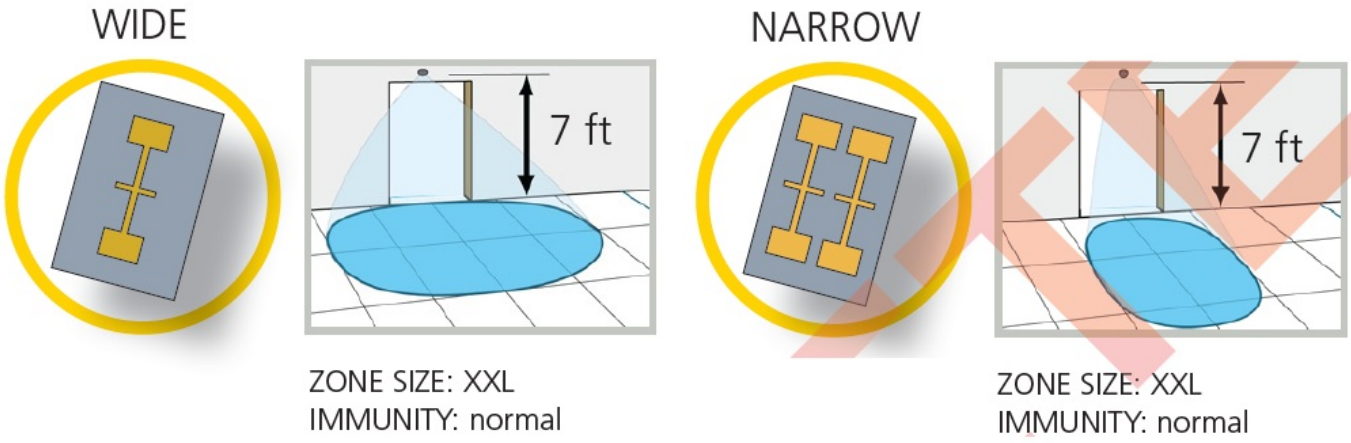
Position the cable as indicated.
Mount the sensor firmly.



MECHANICAL ADJUSTMENTS

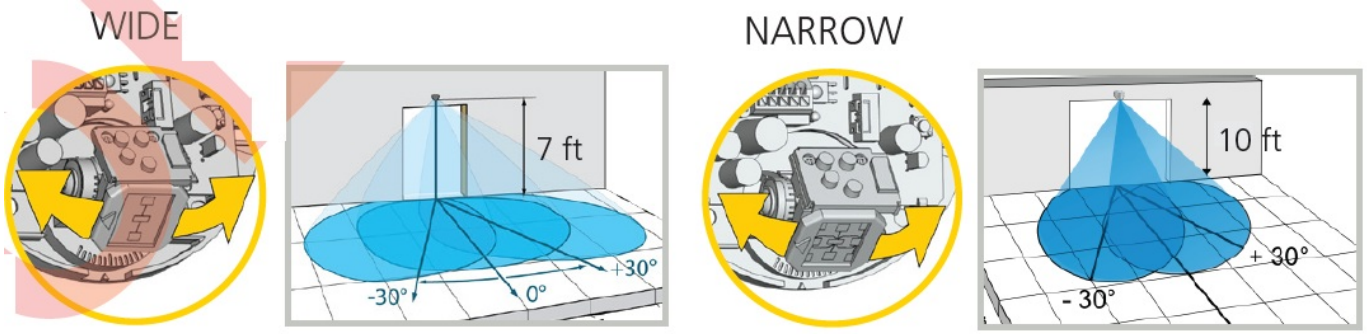
Choose the appropriate antenna (narrow or wide) for the correct detection zone width.
Narrow: 6’ 6″ × 8’
Wide: 13’ × 6’ 6″
See diagram (right) for how to change antennas.





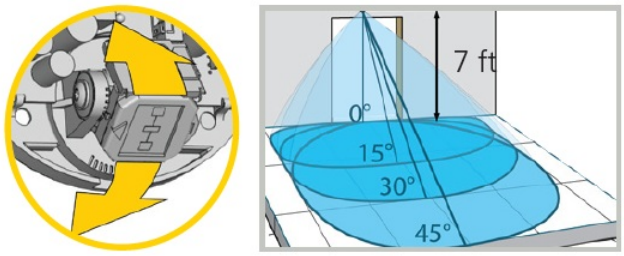
If desired, adjust the antenna angle (laterally and/or vertically) to position the detection field.
When mounting at the maximum height, the sensor manufacturer recommends a 15° tilt angle.
Observe antenna type (narrow or wide) in the illustrations below.

LATERAL ADJUSTMENT

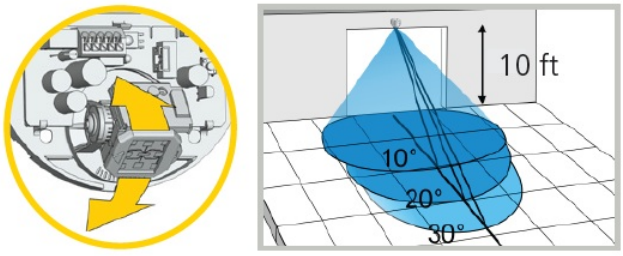


VERTICAL ADJUSTMENT

WIDE



NARROW



SETTINGS

Program the sensor for the desired application, using the remote control or push button options.
When mounting at the maximum height, the sensor manufacturer recommends the following:

Immunity = low
Zone Size = XXL

REMOTE CONTROL

FACTORY VALUES

0 1 2 3 4 5 6 7 8 9

ZONE SIZE	XXS	XS	S	>	>	>	>	L	XL	XXL
IMMUNITY FILTER		low	normal	high	>	>	>	L	XL	highest
DETECTION MODE		bi	uni	uni MTF	uni AWAY	MTF & AWAY				
OUTPUT CONFIGURATION		A	P							
HOLD-OPEN TIME	0.5 s	1.5 s	3 s	5 s	7 s	9 s	10 s	15 s	20 s	30 s
MOUNTING HEIGHT		< 10 ft	> 10 ft							
DOOR CONTROL		auto	open	closed						
FACTORY RESET										reset

bi = two-way detection
uni = one-way detection towards sensor
uni MTF = one-way detection with motion tracking feature
uni AWAY = one-way detection away from sensor

A = active output (NO-contact); relay energizes upon detection
P = passive output (NC-contact); relay de-energizes upon detection

open = the sensor detects constantly. The LED is ON.
closed = the sensor is in standby and does not detect. The LED is OFF.

ACCESS CODE

Access codes (1 to 4 digits) are recommended to set sensors installed close to each other.

SAVING ACCESS CODE: 0-9 0-9 0-9 0-9

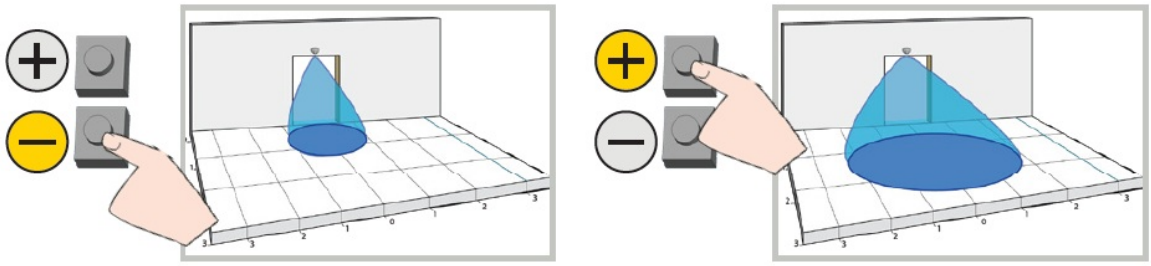
DELETE ACCESS CODE: 0-9 0-9 0-9 0-9 0

Once you have saved an access code, you always need to enter this code to unlock the sensor.
If you forget the access code, cycle the power. For the first minute, you can access the sensor without an access

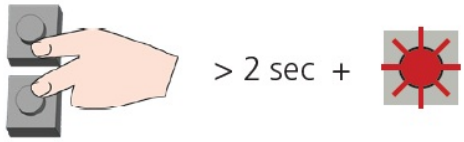
code.

PUSH BUTTONS

ZONE SIZE



FACTORY RESET



TROUBLESHOOTING

	 The door remains closed. LED is off.	Sensor power is off.	Check wiring and power supply.
		Door control setting (F2) is set to 3 (closed).	Change door control setting (F2) to 1 (automatic).
	 Door does not react as expected	Improper output configuration on sensor.	Change the output configuration setting on each sensor connected to the door operator.
	 Door opens and closes constantly	Sensor is disturbed by door motion or vibrations from door motion.	Ensure sensor is fixed properly.
			Ensure detection mode is unidirectional.
			Increase antenna angle.
			Increase immunity filter.
			Reduce zone size.
	 Door opens for no discernable reason	It rains and the sensor detects the motion of the rain drops.	Ensure detection mode is unidirectional.
			Increase immunity filter.
			Install rain accessory.
		In highly reflective environments, the sensor detects objects outside of its detection zone.	Change the antenna angle.
			Reduce zone size.
			Increase immunity filter.
		In airlock vestibules, the sensor detects the movement of the opposite door.	Change the antenna angle.
			Change antenna.
			Increase immunity filter.
	 LED flashes quickly after unlocking	Sensor needs access code to unlock.	Enter correct access code.
			If you forgot the code, cycle the power to access the sensor without access code. Change or delete the access code.
	Sensor does not respond to the remote control	Batteries in the remote control are weak or installed improperly.	Check batteries and change if necessary.
		Remote control not pointed correctly.	Point remote control at sensor.

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.

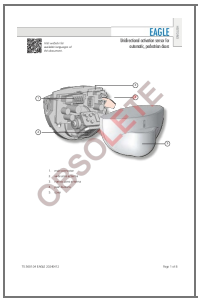
BEA, Inc. strongly recommends that installation and service technicians be AAADM-certified for pedestrian doors, IDA-certified for doors/gates, and factory-trained for the type of door/gate system.

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).

Tech Support: 1-800-407-4545 | Customer Service: 1-800-523-2462
General Tech Questions: techservices-us@BEAsensors.com | www.BEAsensors.com

Documents / Resources

	EAGLE 20240412 Unidirectional Activation Sensor for Automatic [pdf] Installation Guide 75.5601.04, 20240412, 20240412 Unidirectional Activation Sensor for Automatic, 20240412, Unidirectional Activation Sensor for Automatic, Activation Sensor for Automatic, Sensor for Automatic, for Automatic, Automatic

References

- User Manual