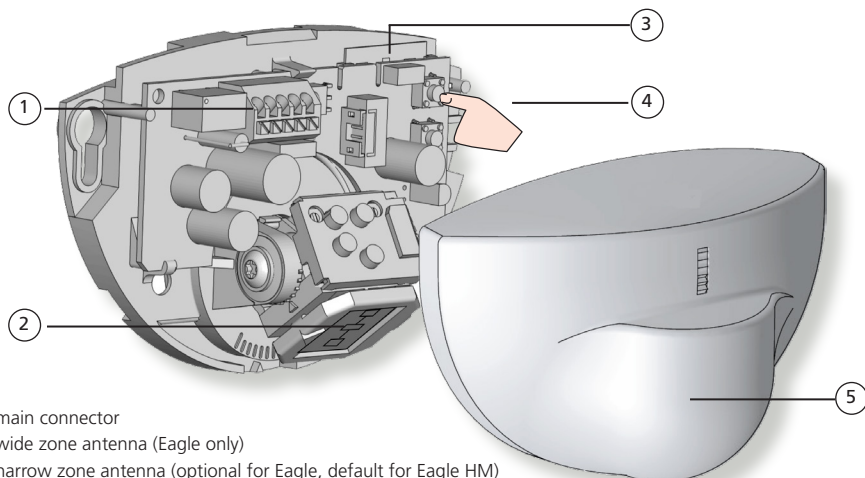


EAGLE & EAGLE HM

Unidirectional activation sensor for automatic, pedestrian doors and high-mount doors



DESCRIPTION



1. main connector
2. wide zone antenna (Eagle only)
3. narrow zone antenna (optional for Eagle, default for Eagle HM)
4. push buttons
5. cover

The image shown here is a standard Eagle.

Antennae differ between the standard and high-mount versions of the Eagle.

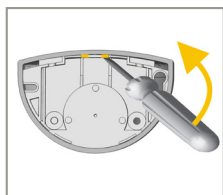
TECHNICAL SPECIFICATIONS

Technology:	microwave and microprocessor
Transmitter frequency:	24.150 GHz
Transmitter radiated power:	< 20 dBm EIRP
Transmitter power density:	< 5 mW/cm ²
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:	relay (free of potential changeover contact)
max. contact voltage:	42V AC/DC
max. contact current:	1A (resistive)
max. switching power:	30W (DC) / 60VA (AC)
Mounting height:	Eagle: 6' – 13' Eagle HM: 10' – 16'6"
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:	Eagle: 8' Eagle HM: 30'
Norm conformity:	R&TTE 1999/5/EC, LVD 2006/95/EC, RoHS 2 2011/65/EU

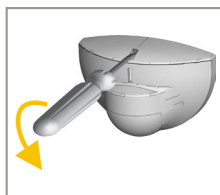
Specifications are subject to change without prior notice.

All values measured in specific conditions.

OPENING THE SENSOR

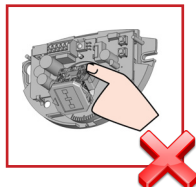


BEFORE
MOUNTING



AFTER
MOUNTING

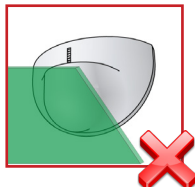
MOUNTING & WIRING



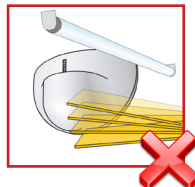
Do not touch electrical parts.



Avoid vibrations.

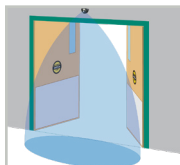


Do not cover the sensor.

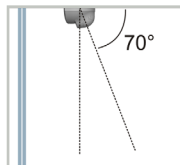


Avoid proximity to neon lamps or moving objects.

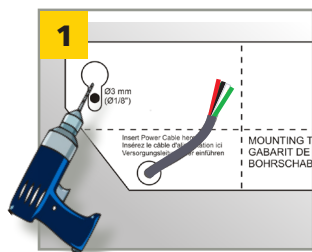
APPLICATIONS



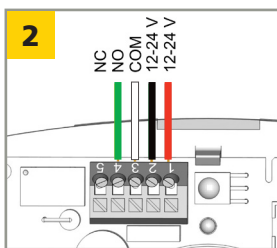
Header mounting above sliding, revolving, or swing door



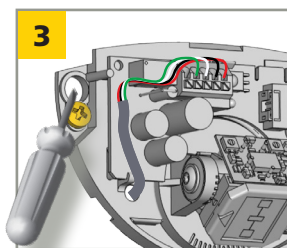
Ceiling mounting in front of door (sliding, revolving, or swing doors)



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



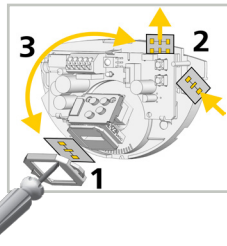
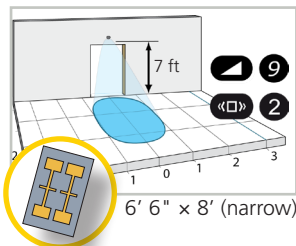
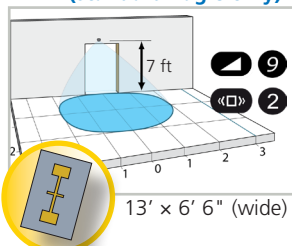
Connect the wires accordingly:
1 - RED - POWER SUPPLY +
2 - BLACK - POWER SUPPLY -
3 - WHITE - COM
4 - GREEN - NO
5 - GREEN - NC



Position the cable as indicated.
Mount the sensor firmly.

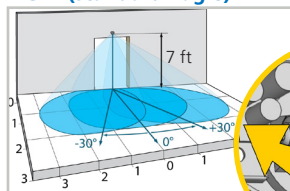
MECHANICAL ADJUSTMENTS

WIDTH (standard Eagle only)

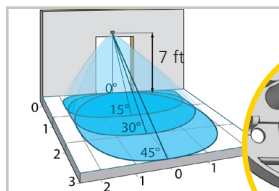
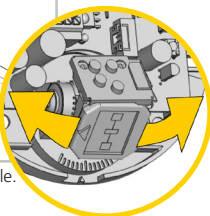


MECHANICAL ADJUSTMENTS

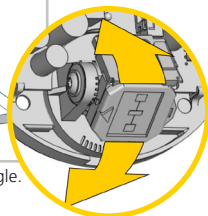
ANGLE (standard Eagle)



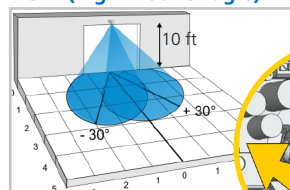
Adjust the lateral antenna angle.



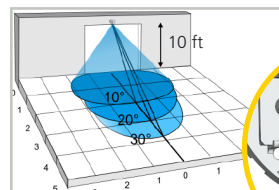
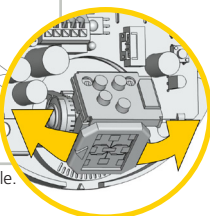
Adjust the vertical antenna angle.



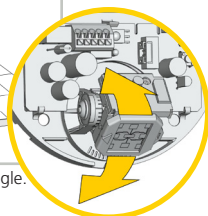
ANGLE (high-mount Eagle)



Adjust the lateral antenna angle.

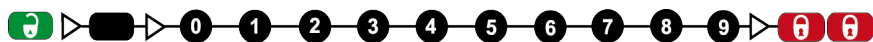


Adjust the vertical antenna angle.



When mounting at the maximum height, BEA recommends a 15° tilt angle.

SETTINGS (by remote control or push buttons)



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	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			
OUTPUT CONFIGURATION			A	P			A = active output (NO-contact); relay energizes upon detection P = passive output (NC-contact); relay de-energizes upon detection				
HOLD-OPEN TIME		0.5 s	1 s	2 s	3 s	4 s	5 s	6 s	7 s	8 s	9 s
MOUNTING HEIGHT		< 10 ft	> 10 ft							Standard Eagle default = < 10 ft High-mount Eagle default = > 10 ft	
DOOR CONTROL			auto	open	closed		open = the sensor detects constantly. The LED is ON. closed = the sensor is in standby and does not detect. The LED is OFF.				

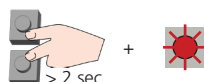
When mounting at the maximum height, BEA recommends the following:

Immunity = low
Zone Size = XXL

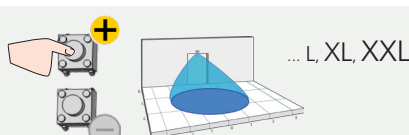
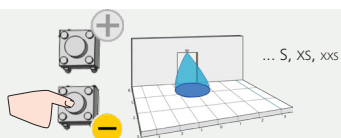
FACTORY VALUES

RESETTING TO FACTORY VALUES:

OR



ZONE SIZE



ACCESS CODE

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

SAVING AN ACCESS CODE:



DELETING AN ACCESS CODE:



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.

TROUBLESHOOTING

The door remains closed.
LED is off.

Sensor power is off.
Door control setting (F2) is set to 3 (closed).

Check wiring and power supply.
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.
In highly reflective environments, the sensor detects objects outside of its detection zone.
In airlock vestibules, the sensor detects the movement of the opposite door.

Ensure detection mode is unidirectional.
Increase immunity filter.
Install rain accessory.
Change the antenna angle.
Reduce zone size.
Increase immunity filter.
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.
Remote control not pointed correctly.

Check batteries and change if necessary.
Point remote control at sensor.

BEA INSTALLATION/SERVICE COMPLIANCE EXPECTATIONS

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

BEA 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 system installation 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 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, UL 325). Verify that all appropriate industry signage and warning labels are in place.

