ENGLISH

SMART FOCUS

Active infrared safety sensor for automatic doors



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DESCRIPTION

- 1. LED
- 2. emitter
- 3. DIP switch
- 4. push button
- 5. setup adjustment screw
- 6. mounting screw
- 7. receiver
- 8. cable with connector
- 9. face



TECHNICAL SPECIFICATIONS

Technology	active infrared	
Detection mode	presence detection by distance measurement	
Detection field	1 ³ / ₅ " × 2 ³ / ₄ " (at 7' mounting height)	
Response time	64 ms	
Mounting height	2 - 10'	
Supply voltage	12 – 24 VAC/VDC -5% / +10%	
Mains frequency	50 – 60 Hz	
Max. current consumption	120mA @ 24 VAC / 80mA @ 24 VDC	
Standard output: max. contact voltage max. contact current max. switching power	relay (free of potential contact) 42 VAC/VDC 1A (resistive) 30W (DC) / 42 VA (AC)	
Monitoring input: max. contact voltage voltage threshold	1 optocoupler (free of potential contact) 30 V high state: > 10 V low state: < 1 V	
Hold time	0.5 s	
Reflectivity	min. 10% at IR-wavelength of 850nm	
Temperature range	-13 - 131 °F (-25 - 55 °C) 0 - 95% relative humidity, non-condensing	
Degree of protection	IP53	
Dimensions	5 ¾″ (L) x 1 ¾″ (H) x 2″ (D)	
Housing material	ABS (black)	
Cable length (main cable)	8'	
Norm conformity	IEC 61000-6-2; IEC 61000-6-3; ISO 13849-1 Performance Level «c» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle)	

Specifications are subject to change without prior notice. All values measured in specific conditions.

INSTALLATION

- Avoid reflective background or objects in the detection field of the sensor.
- Avoid high intensity lighting in the detection field.
- Do not cover the sensor.
- Do not touch the optical parts.



Using the mounting template, cut an opening in the desired location for the sensor.



Loosen the mounting screws and manually adjust the sensor angle. Be sure tighten the screws when finished.



Connect the cables and insert the sensor in the opening from step 1.



Once inserted, secure the 2 mounting screws.



Wire the sensor according to the diagram.



Remove the face by inserting a screwdriver as shown.



If the LED continues to flash, the sensor must be adjusted (see next page).



Press the push button to launch an automatic setup. *The LED will flash red/green.*



When the LED is no longer flashing, the sensor is set up. Now secure the face and test for proper operation.



The sensor can also be installed on the surface by using the surface mount accessory (sold separately).



When finished, confirm DIP changes with a long push of the push button.

TROUBLESHOOTING

The RED LED is ON sporadically or permanently. Bad calibration. Launch a calibration. Bad adjustment of the uncovered zone. Check if the DIP 4 is in correct position Launch a calibration. The sensor is disturbed by external light sources or another sensor. Select a different frequency for each monitoring is activated, but the monitoring is activated, but the monitoring is activated, but the monitoring input is not powered. Check wiring. Image: Description of Dip Activation Control with monitoring: is activated, but the activation can be launched. The monitoring is activated, but the monitoring is activated, but the monitoring output of door control. Door control with monitoring: Set DIP switch 4 to OFF. Image: Description of Dip Activation of Dip Activation. The sensor encounters a memory problem. Replace sensor. Image: Dis ON permanently. The sensor signals an internal fault. Confirm the DIP switch setting with a long push on the push button. Image: Dis ON permanently. The sensor signals an internal fault. Cycle power supply. Image: Dis ON permanently. The sensor signals an internal fault. Cycle power supply. Image: Dis ON permanently. The sensor signals an internal fault. Cycle power supply. Image: Dis ON permanently. The sensor does not receive enough is activated, be able ength or change cable. Image: Dis ONANGE LED flashes 2x ever				
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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 AAADMANS/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. ANS/DASMA 102, ANS/DASMA 107, UL294, UL295, and International Building Code).

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









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