

Infrared Proximity Sensor

Installation Manual



CS-PD535-TAQ shown



Intertek
5024193
Conforms to
UL Std. 294



- No-touch operation reduces the risk of spread of germs, viruses, etc., through cross-contamination
- Adjustable sensor range 2³/₈"-8" (6~20 cm), 3A relay, adjustable trigger duration 0.5~30 seconds or toggle
- LED illuminated sensor area for easy identification
- Selectable LED colors (CS-PD535-TAQ turns from red to green or green to red, CS-PD535-TBQ turns from blue to green or green to blue) when the sensor is activated

Model	LED (standby/triggered)
CS-PD535-TAQ	Green/Red
CS-PD535-TBQ	Green/Blue

Parts List

1x Proximity sensor

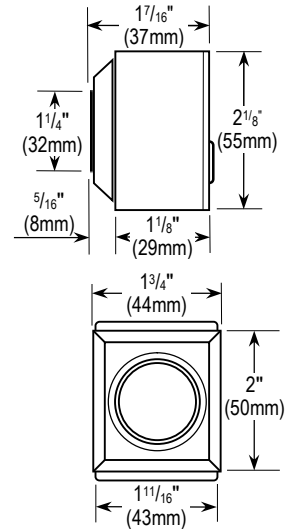
1x Manual

Specifications

Model	CS-PD535-TAQ	CS-PD535-TBQ
Operating voltage	12~24 VAC/VDC	
Current draw (max.)	120mA@12VDC	
Relay type	Form C dry contact, 3A@24VDC	
Connectors	Quick-connect, screwless terminal block	
Response time	10ms	
Output time	Adjustable, 0.5~30 sec., toggle, or as long as sensor is triggered	
Sensing range	Adjustable, 2 ³ / ₈ "~8" (6~20 cm)	
LED	Standby	Blue*
Indicators	Triggered	Green*
Operating life	Relay	500,000 cycles
	Sensor	100,000 hours
Case material	ABS Plastic	
Operating temperature	-4°~131° F (-20°~55° C)	
Dimensions	1 ³ / ₄ "x2 ¹ / ₈ "x1 ⁷ / ₁₆ " (44x55x37 mm)	
Destructive attack level	Level I	
Line security	Level I	
Endurance level	Level IV	
Standby power	Level I	

*Default, reversible by jumper

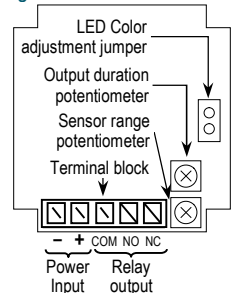
Overview



Installation

1. The sensor is meant to be installed on a rigid thin surface, maximum thickness 1/16" (2mm).
2. Disassemble the sensor and cut a hole in the mounting surface slightly smaller than the front sensor plate 1³/₈" (35mm) wide and 1³/₄" (45mm) high.
3. Reassemble as illustrated on pg. 2 except for the back cover.
4. Punch and thread the wires through the wiring grommet. Connect them to the terminal block. Power must be provided by a low-voltage power-limited/Class 2 power supply and low-voltage field wiring not to exceed 98.5ft (30m).
5. To adjust the sensor's range, turn the trimpot counterclockwise (decrease) or clockwise (increase) (see Fig. 1).

Fig. 1



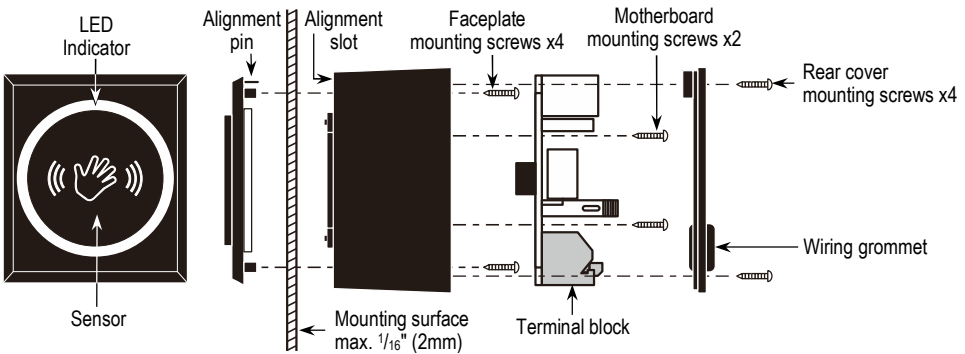
Installation (Continued)

- 6. To adjust the output time, turn the trimpot counterclockwise (decrease) or clockwise (increase). To set to toggle, turn the trimpot all the way counterclockwise (see pg. 1, Fig. 1).
- 7. To reverse the default LED colors, remove the jumper pin (see pg. 1, Fig. 1).
- 8. Install the back cover.

INSTALLATION NOTES:

- Power must be provided by low-voltage power-limited/Class 2 power supply.
- Use only low-voltage field wiring and do not exceed 98.5ft (30m).
- This product must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with National Electric Code ANSI/NFPA 70-latest edition or the Canadian Electrical Code CSA C22.1.
- Due to the nature of IR technology, an IR sensor can be triggered by a direct light source such as sunlight, reflected light from a shiny object, or other direct light. Consider how to protect as needed.

Overview



Troubleshooting

Sensor triggers unexpectedly	• Ensure that no strong direct or reflected light source is reaching the sensor. • Ensure that sensor is sheltered from direct sunlight
Sensor remains triggered	• Check that there are no objects in front of the sensor including a cone of 60° from the centerline. • Adjust the sensor's range to be shorter (see <i>Sensor Settings</i> on pg. 3). • Check that the power supply's voltage is correct for your model. • Adjust the output duration setting – a long delay or enabling toggle mode could affect the sensor's operation (see <i>Sensor Settings</i> on pg. 3).
Sensor will not trigger	• Adjust the sensor's range to be longer (see <i>Sensor Settings</i> on pg. 3). • Check that the power supply's voltage is correct for your model.

IMPORTANT WARNING: For a weather-resistant installation, ensure that the unit is installed as directed, and that the faceplate and faceplate screws are properly sealed. Incorrect mounting may lead to exposure to rain or moisture inside which could cause a dangerous electric shock, damage the device, and void the warranty. Users and installers are responsible for ensuring that this product is properly installed and sealed.

IMPORTANT: Users and installers of this product are responsible for ensuring that the installation and configuration of this product complies with all national, state, and local laws and codes. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or codes.

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