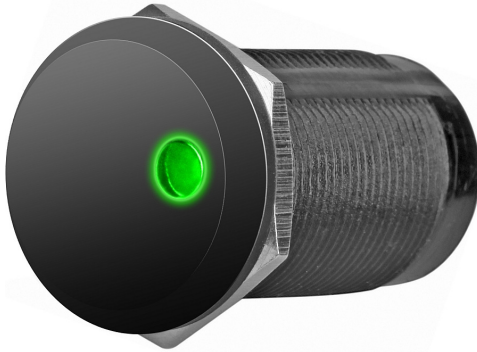


ENFORCER®

Infrared Proximity Sensors Manual



CS-PD115-PAQ shown

Model	Size	Material
CS-PD115-PAQ	ø ³ / ₄ " (ø19mm)	Polycarbonate
CS-PD419-PQ	ø ³ / ₄ " (ø19mm)	Stainless steel and polycarbonate
CS-PD422-PQ	ø ⁷ / ₈ " (ø22mm)	Stainless steel and polycarbonate
CS-PD438-PQ	ø1 ¹ / ₂ " (ø38mm)	Stainless steel and polycarbonate

- No-touch operation reduces the risk of spread of germs, viruses, etc., through cross-contamination
- Triggers a warning or locking device when the sensor is triggered
- Form C relay output (1A@30VDC)
- Adjustable output time (0.5~30 s) or toggle
- Adjustable sensor range up to 6" (15cm)
- Selectable LED colors (turns from red to green or green to red on activation)
- 12~24 VDC Operation
- Variety of sizes allow for a wide range of applications
- Filters out interference from other infrared sources
- Weatherproof front panel (IP65)*

*When properly installed, see pg. 2

ENFORCER Infrared Proximity Sensors

Introduction:

ENFORCER IR Proximity Sensors are compact and can be programmed to unlock an electronic door lock when an object (such as a hand) is passed in front of the sensor or trigger an alarm when an object (such as a valuable possession) is removed from the sensing area. This flexibility makes the sensors ideal for both anti-theft and access control applications.

- Access control: Mount the sensor to a wall or plate in a protected area. A user can wave a hand in front of the sensor to unlock an electric lock for no-touch, protected egress.
- Anti-theft: Place the sensor under or behind a painting or other valuable object. If the object is removed, the sensor will trigger an alarm to alert the owner.

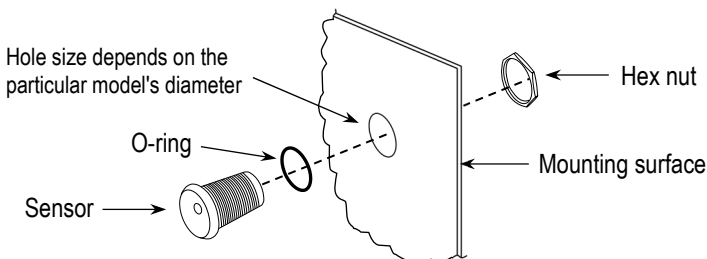
Parts List:

1x IR proximity sensor 1x Wiring harness 1x Hex nut 1x O-ring 1x Manual

Specifications:

Model	CS-PD438-PQ	CS-PD422-PQ	CS-PD419-PQ	CS-PD115-PAQ
Diameter	$\varnothing 1\frac{1}{2}"$ ($\varnothing 38\text{mm}$)	$\varnothing 7\frac{7}{8}"$ ($\varnothing 22\text{mm}$)	$\varnothing 3\frac{3}{4}"$ ($\varnothing 19\text{mm}$)	
Case material	Stainless steel and polycarbonate			Polycarbonate
Operating voltage	12~24 VDC			
Power consumption	12VDC	35mA@12VDC	30mA@12VDC	
	24VDC	45mA@24VDC	35mA@24VDC	30mA@12VDC
Relay type	Form C dry contact, NO/NC/COM, 1A@24VDC, 0.5A@12VAC			
Connectors	Wire terminals			
Response time	10ms			
Output time	0.5~30 s or Toggle			
Sensing range	$1\frac{9}{16}"$ ~6" (4~15 cm)			
LED Status indicator	Selectable red/green or green/red			
Operating life	Relay	1,000,000 cycles		
	Sensor	100,000 Hours		
IP Rating	IP65 (front panel only)			
Operating temperature	4° ~ 131° F (-20° ~ -55° C)			

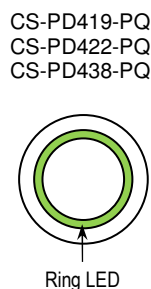
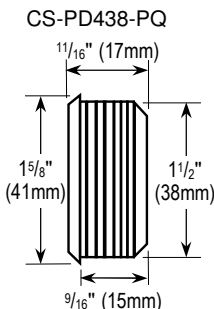
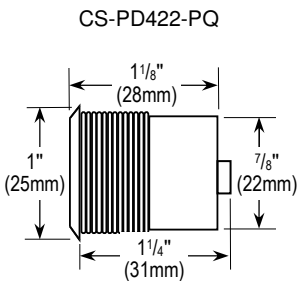
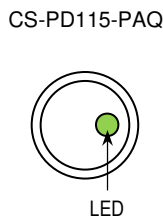
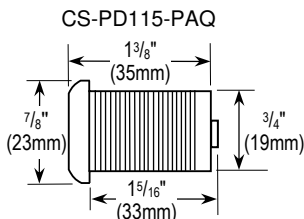
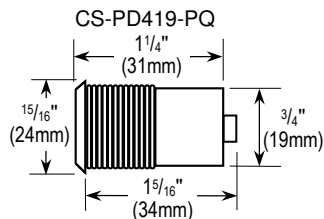
Installation:



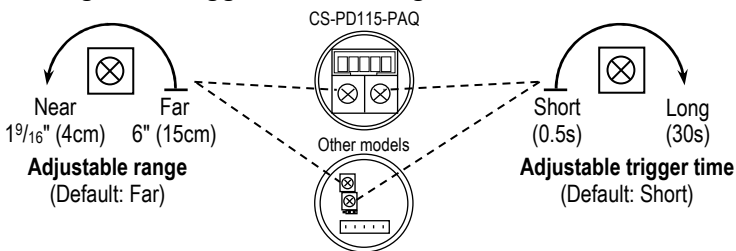
NOTES:

1. Only the front is IP65 rated. For weatherproof installation, the O-ring must be used as shown and the area behind the mounting surface must be protected from moisture intrusion.
2. To ensure proper operation, make sure no objects sit or come within $1\frac{3}{4}"$ (30cm) (60° to the left and right) of the front of the IR proximity sensor to avoid interference.

Overview:



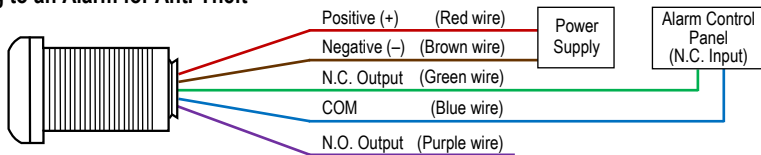
IR Range and Trigger Time Settings:



Toggle mode:
Set the trigger time to maximum.

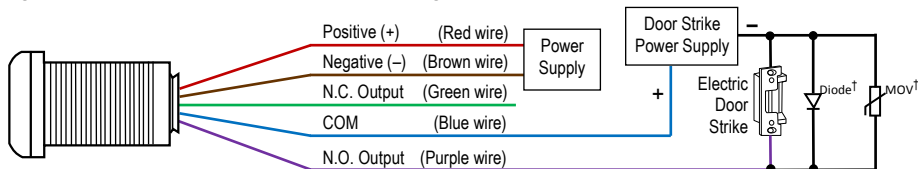
Sample Wiring:

Wiring to an Alarm for Anti-Theft*



*Sensor covered (relay active) in normal state

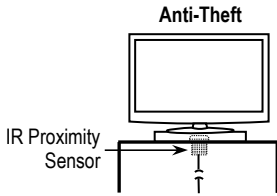
Wiring to an N.O. Door Strike for Wave-to-Open Egress



†Suggest connecting a metal oxide varistor (MOV) and diode (both not included) as close as possible and in parallel with the controlled output device. This absorbs possible electromagnetic interference to prevent damaging the IR proximity sensor.

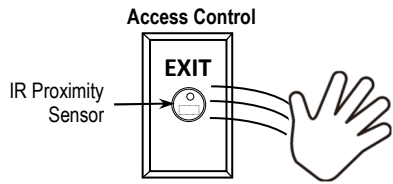
ENFORCER Infrared Proximity Sensors

Sample Applications:



Place the sensor under or behind a valuable object. If the object is removed from the sensor, the sensor will trigger an alarm to alert the owner that the item is out of place.

CS-PD115-PAQ



Mount the sensor to a wall or plate in a protected area. A user can wave his or her hand in front of the sensor to unlock an electronic door lock, allowing germ-free, protected egress.

Available Models:



CS-PD115-PAQ



CS-PD419-PQ



CS-PD422-PQ



CS-PD438-PQ

Troubleshooting:

The indicator light is continuously green

- Check that there are no objects in front of the sensor
- Adjust the sensor's range to be shorter (see IR Range and Trigger Time Settings on page 3)
- Check that the power supply's voltage is 12~24 VDC
- Adjust the trigger time setting – a long delay or enabling toggle mode could affect the sensor's operation

The indicator light will not turn green

- Adjust the sensor's range to be longer (see IR Range and Trigger Time Settings on page 3)
- Check that the power supply's voltage is 12~24 VDC

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 related to locking and egress devices. 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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