33ft Polarized Reflective Photoelectric Beam Sensor
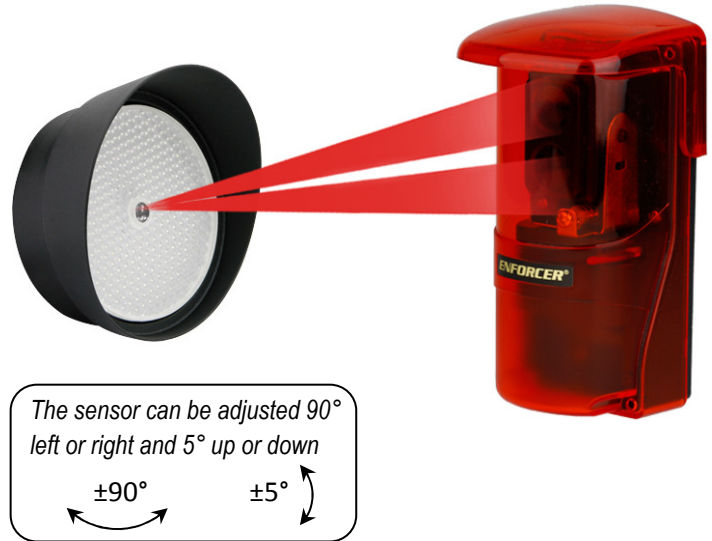
E-931-S33PRGQ

The E-931-S33PRGQ 33ft Polarized Reflective Photoelectric Beam Sensor provides reliable detection of shiny objects that could be missed by a non-polarized sensor.
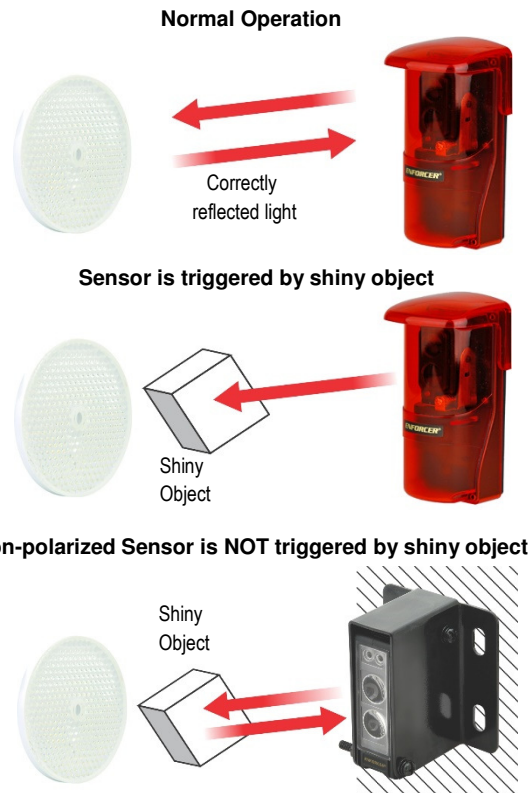
Features:

- Polarized sensor is immune to shiny objects: triggers only when correctly reflected light is detected
- Weatherproof (IP55)
- Anti-condensation housing
- 12-30V DC/AC 60Hz, 100mA
- Up to 33ft (10m) sensing range
- Round reflector, Diameter: $3^1/_4$" (82mm)
- Form C relay: 500mA@30VAC/VDC
- Beam status LED
- Compact size: $4^{13}/_{16}$"x$2^3/_8$"x$2^7/_{16}$" (122x60x62mm)
- N.C. Tamper switch: 500mA@30VAC/VDC
- Monitored Outputs:
  - N.C.
  - 10kΩ Resistor
- Hood included for both sensor and reflector

The sensor can be adjusted 90° left or right and 5° up or down

±90°   ±5°

How Polarized Sensors Work:

Normal Operation

Correctly reflected light

Sensor is triggered by shiny object

Shiny Object

Non-polarized Sensor is NOT triggered by shiny object

Shiny Object

Specifications:

Type		Polarized reflective photoelectric beam sensor
Sensing range		33ft (10m)
Supply voltage		12-30V DC/AC 60Hz, 100mA
Current draw	Standby	55mA@12VDC
	Active	40mA@12VDC
Response time		10ms
Light source		IR LED/Wavelength 740nm
LED	Solid Green	Good beam signal, properly aligned
	Alternating flash	Poor beam signal
	Solid red	No beam signal, triggered
Trigger output		SPDT relay output (NO/NC/COM)
Switching capacity		500mA@30VAC/VDC
Temper switch		N.C., 500mA@30VAC/VDC
Enclosure		IP55
Operating temperature		-4°~131°F (-20°~55°C)

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