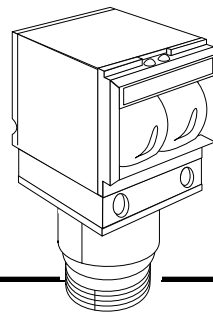
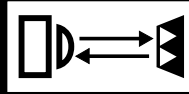


Compact

Photoelectric Sensors

Retro-Reflective



Photoelectric Sensors

- Programmable Controller Compatible
- NPN/PNP wire selectable
- Integral yoke bracket provides four 90°-indexed mounting positions
- Light/dark operate user selectable for optimum flexibility and minimum inventory
- Sensitivity gain adjust (all models)
- 2 wire AC, 3 wire AC, or 4 wire DC circuit types
- Dual LED status indicators

If you need a reliable photoelectric sensor, you can't do much better than the EP210 series. Only 2.45 inches high, it fits in the tightest spots. For easy installation, its U-shaped yoke slips off allowing you to rotate the sensor in 90° increments.

A Rynite® plastic housing holds the surface mount electronics which are themselves encapsulated in epoxy. A wide variety of configurations are available to fit your specific needs. In its retroreflective version, it is great for long range jobs...up to 30 feet. Polarized versions are immune from "proxing" or false signals from highly reflective objects like aluminum cans, shrink wrap, bottles, foil, etc.

The EP210 series of sensors is backed by Namco's Lifetime Replacement Program.

LED Functions

PHOTOELECTRIC SWITCH FUNCTION				
Type	Sensor Receiver Recognizes	Status Output	Status LED	
			Ready	Target
L.O.	DARK	OPEN	ON	OFF
L.O.	LIGHT	CLOSED	OFF	ON
D.O.	LIGHT	OPEN	ON	OFF
D.O.	DARK	CLOSED	OFF	ON



Termination Type	Power Consumption	Output Circuit Type	Non-Polarized Model No. (Plastic Lens)	Polarized Model No. (Glass Lens)	Output Rating	Leakage Current	Voltage Drop	Maximum Switching Frequency	Response Time On/Off
2-WIRE AC 20-150V									
3-pin Mini	0.3W @ 120V	2W	EP210-24400	EP210-24401	500mA	1.7mA	≤ 10V	15Hz	30ms
3-pin Micro	0.3W @ 120V	2W	EP210-24420	EP210-24421	500mA	1.7mA	≤ 10V	15Hz	30ms
6' Cable	0.3W @ 120V	2W	EP210-24410	EP210-24411	500mA	1.7mA	≤ 10V	15Hz	30ms
3-WIRE AC 85-132V									
3-pin Mini	0.7W @ 120 VAC	3W	EP210-24600	EP210-24601	500mA	—	≤ 2.5V	33Hz	15ms
4-pin Micro	0.7W @ 120 VAC	3W	EP210-24620	EP210-24621	500mA	—	≤ 2.5V	33Hz	15ms
6' Cable	0.7W @ 120 VAC	3W	EP210-24610	EP210-24611	500mA	—	≤ 2.5V	33Hz	15ms
4-WIRE DC 10-30V									
4-pin Mini	0.9W @ 30 VDC	4W, NPN & PNP	EP210-24500	EP210-24501	200mA	—	NPN @ 100mA: 0.8V PNP @ 100mA: 2.0V	250Hz	2ms
4-pin Euro	0.9W @ 30 VDC	4W, NPN & PNP	EP210-24520	EP210-24521	200mA	—	NPN @ 100mA: 0.8V PNP @ 100mA: 2.0V	250Hz	2ms
6' Cable	0.9W @ 30 VDC	4W, NPN & PNP	EP210-24510	EP210-24511	200mA	—	NPN @ 100mA: 0.8V PNP @ 100mA: 2.0V	250Hz	2ms

Common Sensor Characteristics

COMPACT RETRO-REFLECTIVE SENSORS		
	Polarized	Non-Polarized
Sensing Range	15 feet*	30 feet*
Standard Target	3.23" diameter reflector	
Light Source (LED)	Visible	Modulated Infrared
Light/Dark Operate — Selectable	yes	
Sensitivity Adjustment	yes	
Ambient Temperature Range	-20°C to +70°C	
Reverse Polarity Protected	4W DC only	
Short Circuit Protected	no	
NEMA Enclosure Type	3, 4, 5, 12, 13	
Dual LED Indicators	yes	
Plastic Housing Material	Rynite®	
Shipping Weight	16 oz.	

* Using EP175-23200, 3.23" dia. reflector.
 ® Thermal Plastic Polyester Resin, Registered Trademark of E.I. Dupont

Circuit Drawings

MINI CONNECTOR MODELS

Male views shown

3 pin, 2 Wire AC

3 pin, 3 Wire AC

4 pin, 4 Wire DC

MICRO & EURO CONNECTOR MODELS

Male views shown

3 pin, 2 Wire AC - Micro

4 pin, 3 Wire AC - Micro

4 pin, 4 Wire DC - Euro (sinking and sourcing)

CABLE MODELS

2 Wire AC

3 Wire AC

4 Wire DC

Dimensional Drawings

FRONT

Micro Connector style shown

BACK

Mini Connector style shown

TOP

SIDE

Mini Connector style shown

Photoelectric Sensors



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