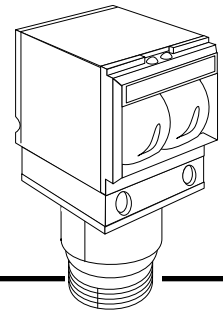
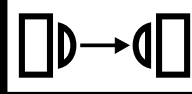


Compact

Photoelectric Sensors

Thru-Beam & Fiber Optic



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 EP220/240 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.

The EP220/240 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	Thru-Beam		Fiber Optic	Output Rating	Leakage Current	Voltage Drop	Response Time On/Off	Maximum Switching Frequency
			Emitter	Receiver						
2-WIRE AC/DC*										
3-pin Mini	0.9W @ 120 V	2W	EP220-23400	—	—	—	—	—	—	—
3-pin Micro	0.9W @ 120 V	2W	EP220-23420	—	—	—	—	—	—	—
6' Cable	0.9W @ 120 V	2W	EP220-23410	—	—	—	—	—	—	—
2-WIRE AC 20-150V										
3-pin Mini	0.3W @ 120 VAC	2W	—	EP220-24400	EP240-24400	500mA	1.7mA	≤10V	30ms	15 Hz
3-pin Micro	0.3W @ 120 VAC	2W	—	EP220-24420	EP240-24420	500mA	1.7mA	≤10V	30ms	15 Hz
6' Cable	0.3W @ 120 VAC	2W	—	EP220-24410	EP240-24410	500mA	1.7mA	≤10V	30ms	15 Hz
3-WIRE AC 85-132V										
3-pin Mini	0.7W @ 120 VAC	3W	—	EP220-24600	EP240-24600	500mA	—	≤2.5V	15ms	33 Hz
4-pin Micro	0.7W @ 120 VAC	3W	—	EP220-24620	EP240-24620	500mA	—	≤2.5V	15ms	33 Hz
6' Cable	0.7W @ 120 VAC	3W	—	EP220-24610	EP240-24610	500mA	—	≤2.5V	15ms	33 Hz
4-WIRE DC 10-30V										
4-pin Mini	0.9W @ 30 VDC	4W, NPN & PNP	—	EP220-24500	EP240-24500	200mA	—	0.8V: NPN @ 100mA 2.0V: PNP @ 100mA	2ms	250 Hz
4-pin Euro	0.9W @ 30 VDC	4W, NPN & PNP	—	EP220-24520	EP240-24520	200mA	—	0.8V: NPN @ 100mA 2.0V: PNP @ 100mA	2ms	250 Hz
6' Cable	0.9W @ 30 VDC	4W, NPN & PNP	—	EP220-24510	EP240-24510	200mA	—	0.8V: NPN @ 100mA 2.0V: PNP @ 100mA	2ms	250 Hz

* 20-150 VAC / 10-180 VDC

► Fiber optic cables not included with fiber optic sensors. See Accessories for fiber optic cables.

Common Sensor Characteristics

THRU-BEAM & FIBER OPTIC SENSORS		
	Thru-Beam	Fiber Optic
Sensing Range	200 feet	See Photoelectric Accessories section
Light/Dark Operate — Selectable	yes	
Light Source	Modulated Infrared LED	
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	6 oz.	

® Thermal Plastic Polyester Resin, Registered Trademark of E. I. Dupont
 * Temperature range for fiber optic cables: -40°F to +525°F (stainless steel)
 -40°F to +235°F (PVC)

Circuit Drawings

MINI CONNECTOR MODELS

3 pin, 2 Wire AC

3 pin, 3 Wire AC

4 pin, 4 Wire DC

MICRO & EURO CONNECTOR MODELS

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

Micro: 1/2 - 20 UNF-2A
Euro: M12 x 1 - 6g

NOTE: INTEGRAL YOKE PERMITS ROTATION IN 90° INCREMENTS FOR MOUNTING

BACK

Mini Connector style shown

ADJUSTABLE GAIN, LIGHT/DARK OPERATE, REMOVE PLUGS TO ADJUST, NPN TARGET, OPERATE, GAIN, L, H, I, O, N, S, W, A, S, A

TOP

Dashed lines represent Fiber Optic version

SIDE

Mini Connector style shown

Dashed lines represent Fiber Optic version

Photoelectric Sensors



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