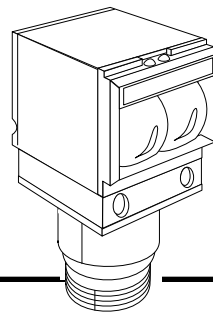
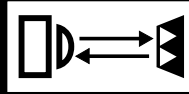


Compact

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 EP200. 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 EP200 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 |



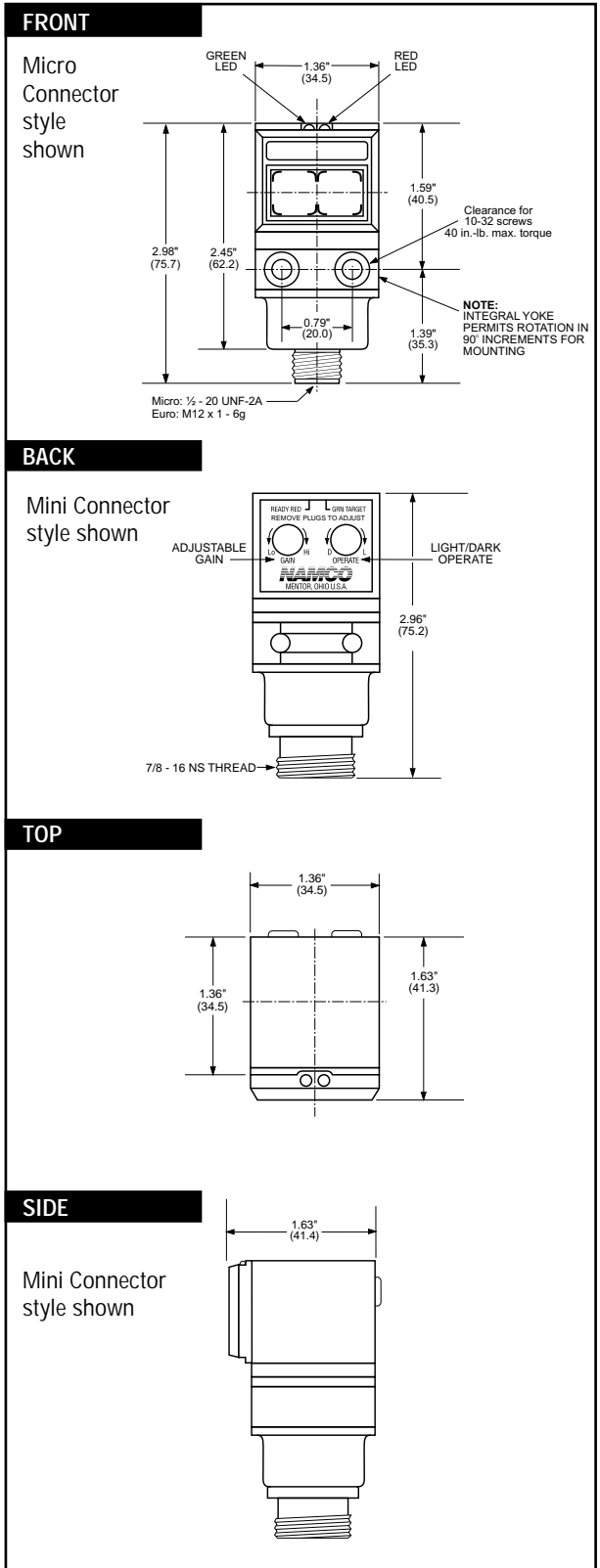
| Termination Type | Power Consumption | Output Circuit Type | Non-Polarized Model No. (Plastic Lens) | Polarized Model No. (Glass Lens) | Output Rating | Leakage Current | Voltage Drop | Maximum Switching Frequency | Response Time On/Off |
|--------------------------|-------------------|---------------------|----------------------------------------|----------------------------------|---------------|-----------------|----------------------------------------|-----------------------------|----------------------|
| 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

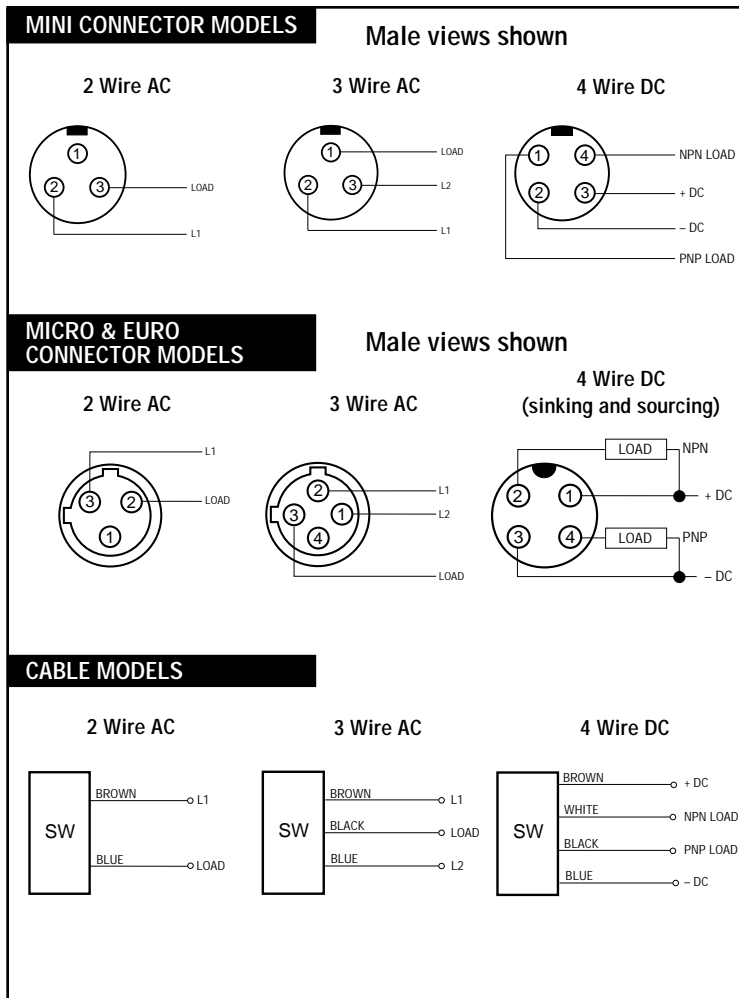
| COMPACT RETRO-REFLECTIVE SENSORS | | |
|----------------------------------|--------------------------|--------------------|
| | Polarized | Non-Polarized |
| Sensing Range | 15 feet* | 30 feet* |
| Standard Target | 3.23" diameter reflector | |
| Light Source (LED) | Visible | Modulated Infrared |
| 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

Dimensional Drawings



Circuit Drawings



Photoelectric Sensors



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For technical assistance, call 1-800-NAMTECH