HTM™ SENSORS

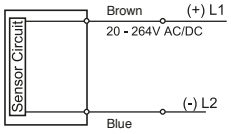
- LONG RANGE PHOTOELECTRIC SENSORS
- RUGGED DESIGN FOR MANY APPLICATIONS
- BUILT-IN TIMERS AND DELAYS FOR RELIABLE OUTPUTS
- AVAILABLE IN PNP, NPN, AND AC MODELS
- AVAILABLE WITH DC OR AC QUICK-CONNECT OR PRE-WIRED MODELS
- AVAILABLE IN LONG RANGE DIFFUSE, RETROREFLECTIVE OR THRU-BEAM

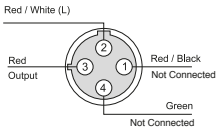
# RP74 PHOTOELECTRIC SENSORS SPECIFICATIONS

| | THRU-BEAM | DIFFUSE | RETROREFLECTIVE | FIBER OPTIC | CLEAR OBJECT DETECTION |
|---|---|---|---|---|---|
| | | | | | |
| OPERATING RANGE | 61 m (200 ft.) | 3.04 m (10 ft.) | 9.14 m (30 ft.) | Depends on fiber | 1.20 m (3.9 ft.) |
| LIGHT EMISSION | Infrared LED (880 nm) | Infrared LED (880 nm) | RED LED (660 nm) | Infrared LED (880 nm) | RED LED (660 nm) |
| POWER SUPPLY | 10-40 VDC or 12-240 VDC/24-240 VAC | | | | |
| CURRENT CONSUMPTION | 35 mA Max. | | | | |
| INDICATOR LEDS | Green: Power, Yellow: Output, Red: Margin | | | | |
| SATURATION VOLTAGE | 2.5 V Max. | | | | |
| OUTPUT CURRENT | DC Models 250 mA / Relay Models 10 A at 120 VAC / 5 A at 240 VAC | | | | |
| RESPONSE TIME | NPN/PNP: 5 ms, SPDT Relay: 23 ms | | | | |
| TIMING OPTIONS | No Delay, On Delay, Off Delay, One-shot (for Models with Timing Delay) | | | | |
| TIME SETTINGS | Adjustable, 0.1...15 s (for Models with Timing Delay) | | | | |
| MECHANICAL PROTECTION | IP67 | | | | |
| HOUSING MATERIAL | Glass Fiber Reinforced Plastic, Cover Gasket Material: Neoprene | | | | |
| LENS MATERIAL | Acrylic | | | | |
| OPERATING TEMPERATURE | -25...+55 °C (-13...+131 °F) | | | | |
| STORAGE TEMPERATURE | -40...+55 °C (-40...+131 °F) | | | | |
| REFERENCE STANDARD | EN 60947-5-2 | | | | |
| **DC Models** (10-40 VDC) M12 - Recommended Mating Cable: part # R-FS4TZ-V075 (straight), R-FA4TZ-V075 (right angle) | | | | | |
| Emitter | RP74-T061MD-EY9Q4LE | | | | |
| NPN / PNP - with timing | RP74-T061MD-CY9Q4UE-TN | RP74-D3040D-CY9Q4UE-TN | RP74-L9140D-CY6Q4UE-TN | RP74-FGFD-CY9Q4UE-TN | RP74-S1200D-CY6Q4UE-TN |
| **AC Models** (12-240 VDC/24-240 VAC) ½"-20 UNF - Recommended Mating Cable: part # U-FS5TA-V105 (straight), U-FA5TA-V105 (right-angle) AC Emitter - U-FS4TAV105 (straight), U-FA4TAV105 (right angle) | | | | | |
| Emitter | RP74-T061MA-EY9Q4LM | | | | |
| SPDT Relay - with timing | RP74-T061MR-CY9Q5LM-TN | RP74-D3040R-CY9Q5LM-TN | RP74-L9140R-CY6Q5LM-TN | RP74-FGFR-CY9Q5LM-TN | RP74-S1200R-CY6Q5LM-TN |

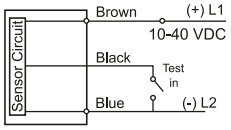
NOTE: Specifications subject to change without notification.

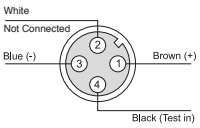
Emitter AC



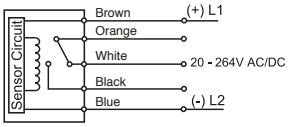



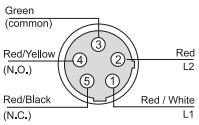

Emitter DC



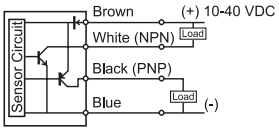



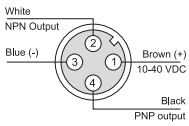

AC Receiver, Diffuse & Retro

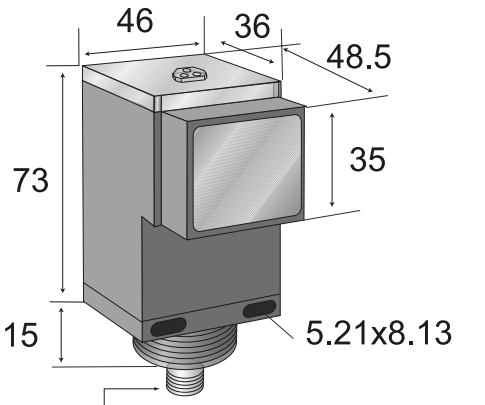



NPN / PNP




LONG RANGE PHOTOELECTRIC SENSORS ARE IDEAL FOR SENSING OVER LONG DISTANCES, AND COME WITH A RUGGED HOUSING FOR A VARIETY OF APPLICATIONS.