POL RETRO 10-30VDC RED 50mm-4.9m LO/DO PNP/NPN DC-MICRO-4

Field Switching and Sensing > Non Contact Sensors > Photoelectric Sensors > Allen-Bradley Photoelectric Sensors > Polarised Retroreflective Sensors > Rectangular





Representative Photo Only (actual product may vary based on configuration selections)

PHOTOSWITCH Photoelectric Sensor, Standard (On / Off), Polarized Retroflective, 4.87m (16ft), 10-40V DC, NPN/PNP Transistor, 4-pin DC Micro (M12) QD

- Comprehensive range of photoelectric sensing technologies available which include retroreflective, through-beam, diffuse, background suppression, clear object detection, colour detection and fibre-optics
- Extensive range of photoelectric sensors with laser light source available suitable for high precisions applications
- Extensive range of housing styles and mounting options
- Specialised versions with IP69k rating available for high-pressure washdown applications in the food and beverage industry
- Specialised long-range laser sensors available for distance measurement applications
- Specialised versions available with IO-Link technology.
 This technology enables the data delivery from the sensor directly into a control system in a very efficient manner

| SPECIFICATIONS | | |
|--|--|--|
| Product Series | 42G / Series 9000 | |
| Component Type Field Switching & Sensing | Photoelectric Sensor | |
| Sensing Mode | Polarised Retroreflective | |
| Light source type | LED | |
| Colour, light source | Red (660nm) | |
| Beam Angle / Field of View | 1.5 ° (degrees) | |
| Material, Lens | PMMA / Acrylic / Perspex / Plexiglas (Polymethyl methacrylate) | |
| Material, Body / Housing | PBT / PBTP / Valox material | |
| Shape | Rectangular | |
| Height | 74.93 mm | |
| Width | 41.91 mm | |
| Depth | 40 mm | |
| Orientation | Right Angle | |
| Mounting (Multiple) | Threaded Base Mounting Bracket (Ordered Separately) | |
| Thread Size | M30 x 1.5 size | |
| Teach Mode / Sensitivity Adjustment | Single-Turn Knob / Potentiometer sensitivity | |
| Sensing Distance, Min | 50 mm min | |
| Sensing Distance, Max | 4900 mm max | |
| Operating Range(s) | 10 30V DC | |
| Ue, Rated Operational Voltage, DC, min | 10 V DC | |
| Ue, Rated Operational Voltage, DC, max | 30 V DC | |
| Switching Mode | Light or Dark Operate Selectable | |
| Output Type | NPN & PNP | |
| Load Current | 0.25 A | |
| Response Time (Off → On) | 2 ms | |



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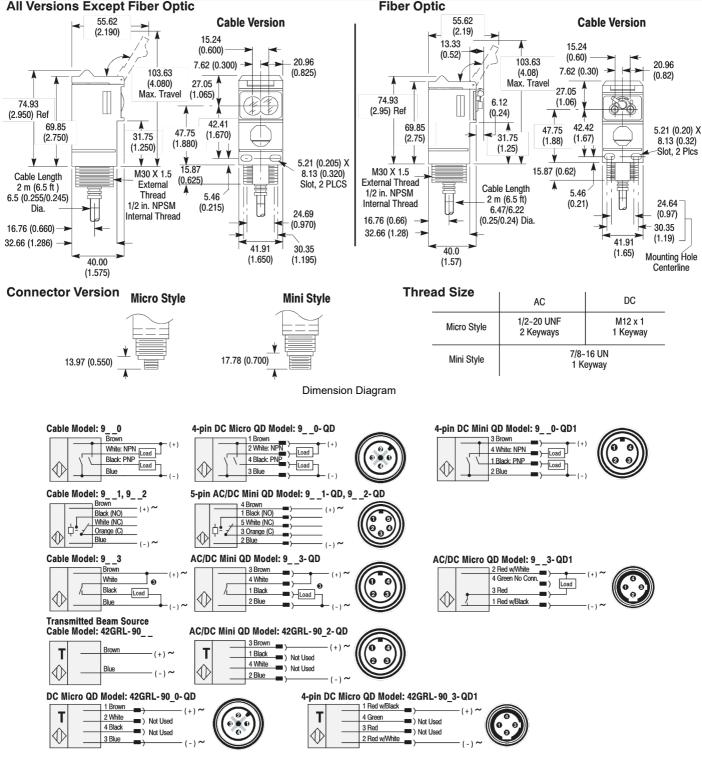
| D T (0 000 | | 2 |
|---|-----------------------------------|--------------------------|
| Response Time (On → Off) | | 2 ms |
| Indicators | | Red LED Green LED |
| | | Yellow LED |
| Connection / Termination | | M12 x 1, DC Micro, 4-pin |
| Number of Conductors | | 4 qty |
| Operating Temperature, Min | | -34 °C min |
| Operating Temperature, Max | | 70 °C max |
| Relative humidity, min | | 5 %RH |
| Relative Humidity, Max | | 95 %RH |
| Humidity Type | | Non-condensing |
| IP Rating | | IP67 IP69K |
| Shock Acceleration (Max.) | | 30 g |
| Shock Duration (Max.) | | 1 ms |
| Shock Rating | | IEC 60947-5-2 |
| Vibration Displacement (Peak to Peak Max.) | | 1 mm |
| Vibration Frequency, Operational (Max.) | | 55 Hz |
| Vibration Rating | | IEC 60947-5-2 |
| REFERENCES | | |
| IECEx Certificate | - | |
| Supplier Declaration of Conformity: | - | |
| Installation Guide: | - | |
| User Manual: | - | |
| Manufacturer Datasheet: | 42GRU9200QD_ManufacturerDatasheet | |
| Manufacturer Catalogue & Product Selection: | - | |



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- For Allen-Bradley programmable controller compatible interface, refer to publication 42-2.0.
- 2 Quick-disconnect wiring codes shown are valid for Allen-Bradley cables only.
- Load can be placed on either black or white wire to create sourcing or sinking respectively.

Connection / Wiring Diagram

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