Catalogue No: 42GRR-9000-QD

TB RCVR 10-30VDC INFRARED LO/DO PNP/NPN DC-MICRO-4

Field Switching and Sensing > Non Contact Sensors > Photoelectric Sensors > Allen-Bradley Photoelectric Sensors > Transmitted Beam Sensors > Rectangular





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

PHOTOSWITCH Photoelectric Sensor, Standard (On / Off), Transmitted Beam Receiver, 10-40V DC, NPN/PNP Transistor, 4pin 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
	12 4 7 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Component Type Field Switching & Sensing	Photoelectric Sensor
Sensing Mode	Through-Beam Receiver
Light source type	LED
Illumination Mode	Continuous
Colour, light source	Infrared (880nm)
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
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 \rightarrow On)	2 ms
Response Time (On → Off)	2 ms



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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:	42GRR9000QD_ManufacturerDatasheet	
Manufacturer Catalogue & Product Selection:	-	

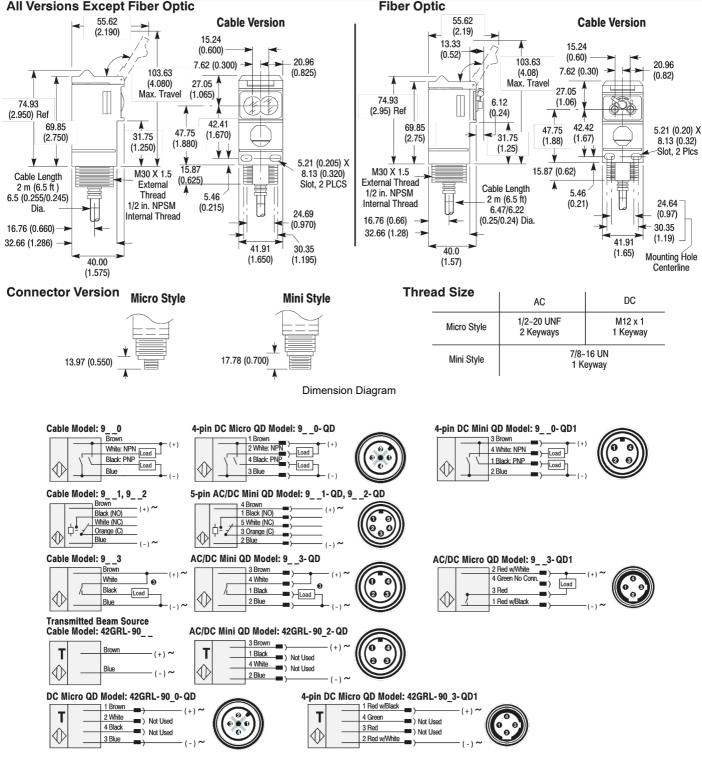


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- For Allen-Bradley programmable controller compatible interface, refer to publication 42-2.0.
- Quick-disconnect wiring codes shown are valid for Allen-Bradley cables only.
- Load can be placed on either black or white wire to create sourcing or sinking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

Connection / Wiring Diagram