

Catalogue No: 42GRL-9000-QD

TB EMIT 10-264V AC/DC INFRARED 25-61000mm 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, Diagnostic, Transmitted Beam, 61m (200ft), 10-264V AC/DC (transmitted beam light source), 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 precision 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	Through-Beam Emitter
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	N / A sensitivity
Sensing Distance, Min	25 mm min
Sensing Distance, Max	61000 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
Indicators	Red LED Green LED Yellow LED

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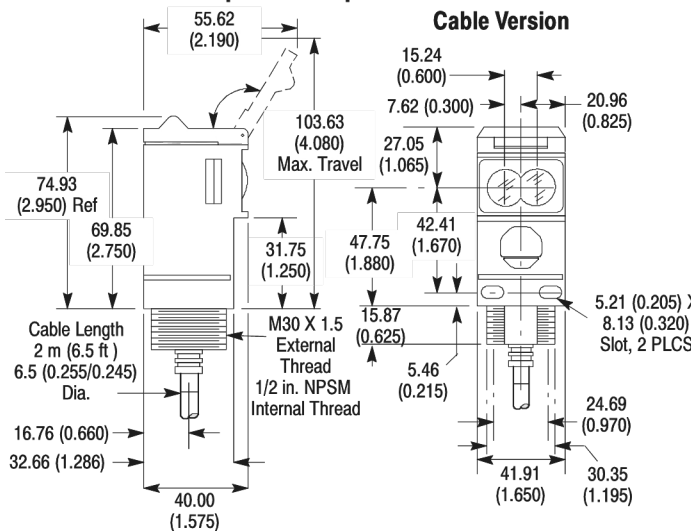
Field Switching and Sensing > Non Contact Sensors > Photoelectric Sensors > Allen-Bradley Photoelectric Sensors > Transmitted Beam Sensors > Rectangular



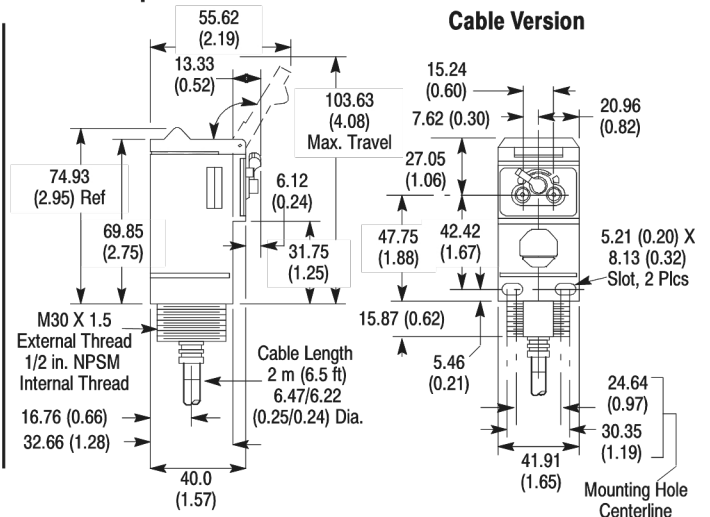
Connection / Termination	M12 x 1, DC Micro, 4-pin
Number of Conductors	4 qty
Operating Temperature, Min	-34 °C min
Operating Temperature, Max	70 °C max
Relative humidity, min	5 %RH
Relative Humidity, Max	95 %RH
Humidity Type	Non-condensing
IP Rating	IP67 IP69K
Shock Acceleration (Max.)	30 g
Shock Duration (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:	42GRL9000QD_ManufacturerDatasheet
Manufacturer Catalogue & Product Selection:	-

All Versions Except Fiber Optic

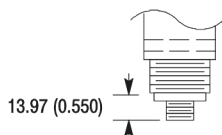


Fiber Optic

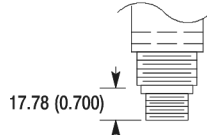


Connector Version

Micro Style



Mini Style



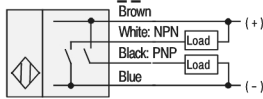
Dimension Diagram

Thread Size

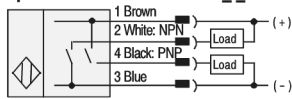
	AC	DC
Micro Style	1/2-20 UNF 2 Keyways	M12 x 1 1 Keyway
Mini Style	7/8-16 UN 1 Keyway	



Cable Model: 9__0



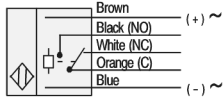
4-pin DC Micro QD Model: 9__0-QD



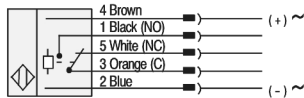
4-pin DC Mini QD Model: 9__0-QD1



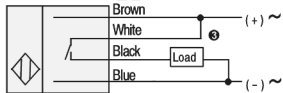
Cable Model: 9__1, 9__2



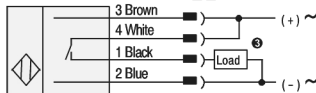
5-pin AC/DC Mini QD Model: 9__1-QD, 9__2-QD



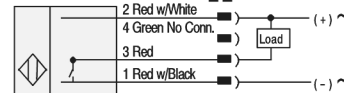
Cable Model: 9__3



AC/DC Mini QD Model: 9__3-QD

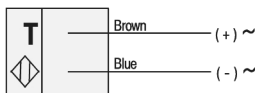


AC/DC Micro QD Model: 9__3-QD1

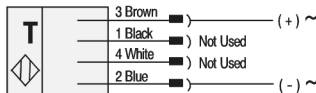


Transmitted Beam Source

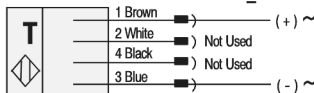
Cable Model: 42GRL-90__



AC/DC Mini QD Model: 42GRL-90__-QD



DC Micro QD Model: 42GRL-90__0-QD



4-pin DC Micro QD Model: 42GRL-90__3-QD1



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

Connection / Wiring Diagram