

Catalogue No: 42GRR-9002

TB RCVR 70-240VAC/DC INFRARED LO/DO SPDT-EM 2m

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



PHOTOSWITCH Photoelectric Sensor, Standard (On / Off), Transmitted Beam Receiver, 70-264V AC/DC, SPDT EM Relay, 2m (6.5ft) 300V cable

- 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

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

SPECIFICATIONS

Product Series	42G / Series 9000
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
Voltage Supply Operating Range	70 ... 264V AC/DC
Ue, Rated Operational Voltage, AC, min	70 V AC
Ue, Rated Operational Voltage, AC, max	264 V AC
Ue, Rated Operational Voltage, DC, min	70 V DC
Ue, Rated Operational Voltage, DC, max	264 V DC
Switching Mode	Light or Dark Operate Selectable
Output Type	SPDT EM Relay
Load Current	1 A

Catalogue No: **42GRR-9002**

TB RCVR 70-240VAC/DC INFRARED LO/DO SPDT-EM 2m

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



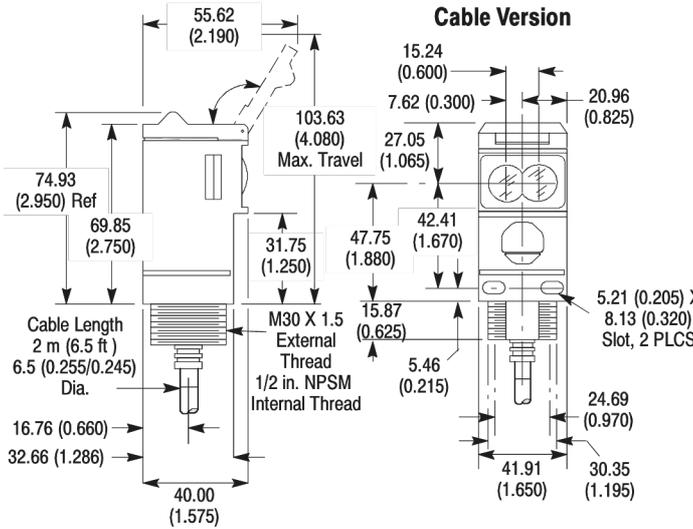
Response Time (Off → On)	15 ms
Response Time (On → Off)	15 ms
Indicators	Red LED Green LED Yellow LED
Connection / Termination	Built-in cable with flying leads
Number of Conductors	5 qty
Length, Cable	2 m
Material, cable jacket	PVC material
Colour, Cable Jacket	Black colour
Operating Temperature, Min	-34 °C min
Operating Temperature, Max	70 °C max
Relative Humidity, Min	5 %RH
Relative Humidity, Max	95 %RH
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

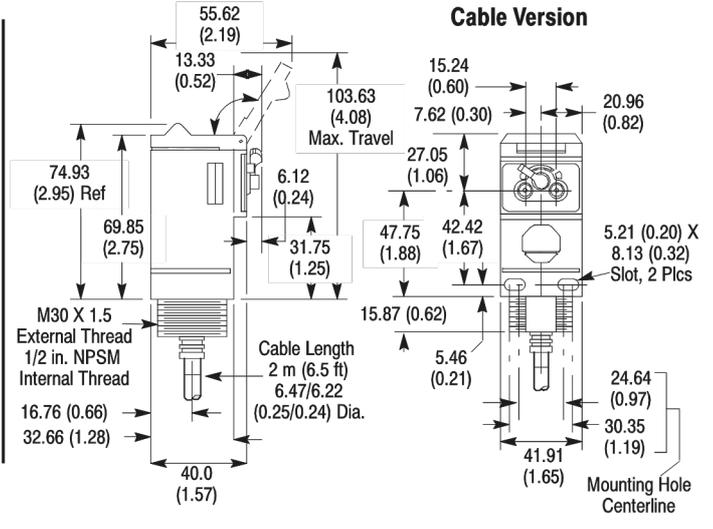
IECEX Certificate	-
Supplier Declaration of Conformity:	-
Installation Guide:	-
User Manual:	-
Manufacturer Datasheet:	42GRR9002_ManufacturerDatasheet
Manufacturer Catalogue & Product Selection:	-



All Versions Except Fiber Optic

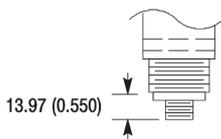


Fiber Optic

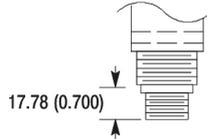


Connector Version

Micro Style



Mini Style

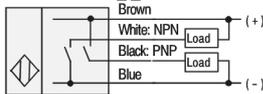


Dimension Diagram

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	

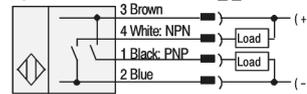
Cable Model: 9_0_0



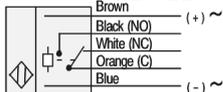
4-pin DC Micro QD Model: 9_0-QD



4-pin DC Mini QD Model: 9_0-QD1



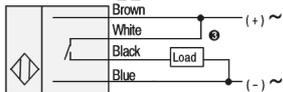
Cable Model: 9_1_9_2



5-pin AC/DC Mini QD Model: 9_1-QD, 9_2-QD



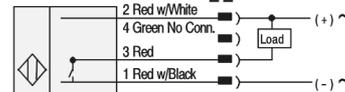
Cable Model: 9_3



AC/DC Mini QD Model: 9_3-QD



AC/DC Micro QD Model: 9_3-QD1



Transmitted Beam Source

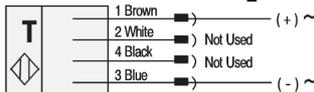
Cable Model: 42GRL-90_



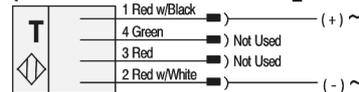
AC/DC Mini QD Model: 42GRL-90_2-QD



DC Micro QD Model: 42GRL-90_0-QD



4-pin DC Micro QD Model: 42GRL-90_3-QD1



- ① 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.
- ③ Load can be placed on either black or white wire to create sourcing or sinking respectively.

Connection / Wiring Diagram