Catalogue No: **42GRP-9001**

DIFF 20-40VAC/DC INFRARED 50mm-1.5m LO/DO SPDT-EM 2m

Field Switching and Sensing > Non Contact Sensors > Photoelectric Sensors > Allen-Bradley Photoelectric Sensors > Digital Diffuse Sensors > Rectangular

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

PHOTOSWITCH Photoelectric Sensor, Standard (On / Off), Standard Diffuse, 1.52m (5ft), 10-55V DC / 20-40V AC, SPDT 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 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	Diffuse
Light source type	LED
Colour, light source	Red (660nm)
Beam Angle / Field of View	3.5 ° (degrees)
Spot Size	2 x 3.5 mm at 800 nm
Material, Lens	PMMA / Acrylic / Perspex / Plexiglas (Polymethyl methacrylate)
Material, Body / Housing	PBT / PBTP / Valox material
Shape	Rectangular
Height	74.8 mm
Width	41.9 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	1500 mm max
Operating Range(s)	10 ... 55V DC 20 ... 40V AC
Ue, Rated Operational Voltage, AC, min	20 V AC
Ue, Rated Operational Voltage, AC, max	40 V AC
Ue, Rated Operational Voltage, DC, min	10 V DC
Ue, Rated Operational Voltage, DC, max	55 V DC
Switching Mode	Light or Dark Operate Selectable

Output Type	SPDT EM Relay
Load Current	0.03 A
Response Time (Off → On)	0.5 ms
Response Time (On → Off)	0.5 ms
Indicators	Red LED Green LED Yellow LED
Connection / Termination	Built-in cable with flying leads
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
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:	42GRP9001_ManufacturerDatasheet
Manufacturer Catalogue & Product Selection:	-