Photoelectric sensors G2S, Through-beam photoelectric sensor

GSE2S-N1311







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Model Name > GSE2S-N1311

Part No.

> 1064365



- Sensing range up to 2 m
- · Rugged metal mounting bushes ensure reliable installation and a long service life
- PinPoint LED technology is precise and fast-reacting for optimal, quick detection of a wide range of objects
- Clearly visible LED display

Your benefits

- · Easy alignment thanks to the small, brilliant and highly visible light spot
- High throughput and less machine and system downtime, since the sensors are pre-set and have high operating reserves
- Very high sensing ranges with high reserve factors, since the powerful PinPoint LED detects objects at distances due to a high light intensity
- The 45-degree tilted cable entry offers maximum installation flexibility with additional soft rubber bearings to absorb vibrations and tensile loads
- Installation flexibility since several sensors can be installed in close proximity to one another without causing false trips due to interference



Illustration may differ



Features

Sensor/detection principle: Dimensions (W x H x D): Housing design (light emission): Sensing range max.: Sensing range: Type of light: Light source: Wave length: Light spot size (distance): ¹⁾ Average service life of 100,000 h at $T_A = +25 \degree C$ Through-beam photoelectric sensor 7.7 mm x 21.8 mm x 13.5 mm Rectangular 0 m ... 2 m 0 m ... 1.5 m Visible red light PinPoint LED ¹⁾ 640 nm Ø 23 mm (500 mm)

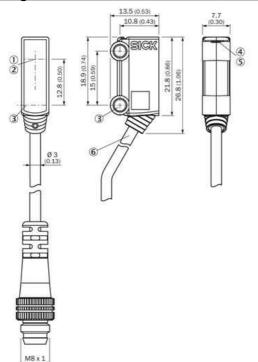
Mechanics/electronics

Supply voltage: Ripple: Power consumption: Output type: Switching mode: Output current Imax.: $10 V DC \dots 30 V DC^{(1)}$ $\leq 5 Vpp^{(2)}$ $\leq 20 mA^{(3)}$ NPN Light switching < 50 mA

Response time:	< 0.6 ms ⁴⁾
Switching frequency:	800 Hz ³⁾
Connection type:	Cable, 3-wire, 2 m ⁶⁾
Cable diameter:	Ø 3 mm
Circuit protection:::	A, C, D ^{7) 8) 9)}
Optics material:	PMMA
Enclosure rating:	IP 67
Ambient temperature operation:	-25 °C +50 °C
Ambient storage temperature:	-40 °C +75 °C
UL File No.:	NRKH.E181493
Housing material:	ABS, Plastic
¹⁾ Limit values, operation in short-circuit protected network max. 8 A ²⁾ May not exceed or fall short of V tolerances ³⁾ Without load ⁴⁾ Signal transit time with resistive	
load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ Do not bend below 0 °C ⁷⁾ A = V connections reverse-polarity protected ⁸ C = interference suppression ⁹⁾ D = outputs	

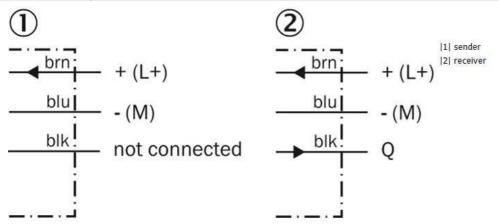
overcurrent and short-circuit protected

Dimensional drawing

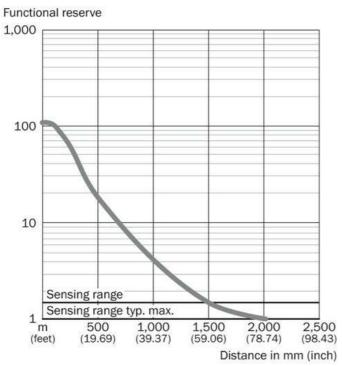


- |1| Optical axis receiver
- |2| Optical axis sender
- |3| Mounting hole, Ø 3.2 mm
- [4] Status indicator LED green: supply voltage on
- |5| Status indicator LED,
 - yellow: Status of received light beam
- [6] Connection

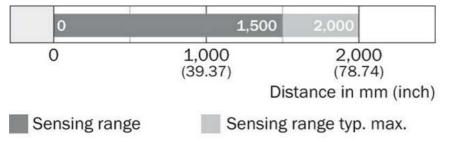
Connection diagram

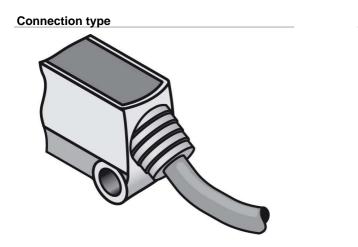


Characteristic curve

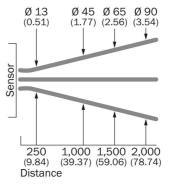


Sensing range diagram





Light spot size



All dimensions in mm (inch)

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