



Photoelectric sensors  
G6, Photoelectric retro-reflective sensor,  
Standard optics

GL6-P0111S09



**Model Name** > **GL6-P0111S09**  
**Part No.** > **1058698**



*Illustration may differ*

**At a glance**

- PinPoint LED for a bright, precise light spot
- Durable metal threaded inserts
- SICK ASIC technology - the result of decades of experience in photoelectric sensors
- Large, user-friendly potentiometer
- Large, bright indicator LEDs
- IP 67 enclosure rating

**Your benefits**

- Easy alignment and precise object detection due to a highly visible PinPoint LED
- Quick and easy mounting and high durability due to threaded metal inserts
- SICK ASIC technology provides high performance, excellent reliability and crosstalk immunity
- Easy to adjust due to large, user-friendly potentiometers
- Easy to monitor due to large, bright indicator LEDs
- Easy installation with SICK accessories



**Features**

Sensor/detection principle:	Photoelectric retro-reflective sensor, Standard optics
Dimensions (W x H x D):	12 mm x 31.5 mm x 21 mm
Housing design (light emission):	Rectangular
Sensing range max.:	≤ 6 m <sup>1)</sup>
Sensing range:	≤ 5 m <sup>2)</sup>
Type of light:	Visible red light
Light source:	PinPoint LED <sup>3)</sup>
Wave length:	650 nm
Light spot size (distance):	Ø 8 mm (350 mm)

<sup>1) 2)</sup> PL80A <sup>3)</sup> Average service life of 100,000 h at T<sub>A</sub> = +25 °C

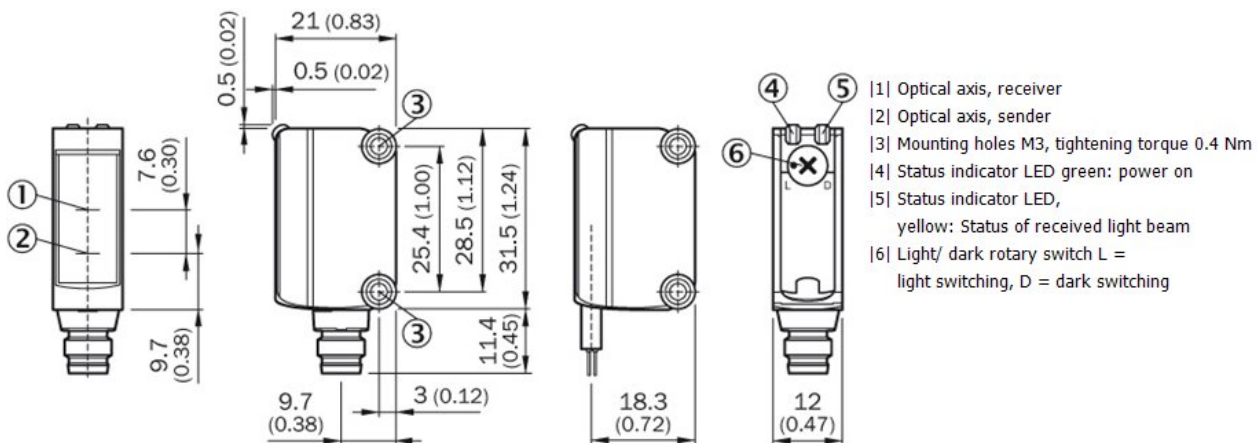
**Mechanics/electronics**

Supply voltage:	10 V DC ... 30 V DC <sup>1)</sup>
Power consumption:	≤ 30 mA <sup>2)</sup>
Output type:	PNP
Switching mode:	Light/dark-switching
Switching mode selector:	Selectable via light/dark selector

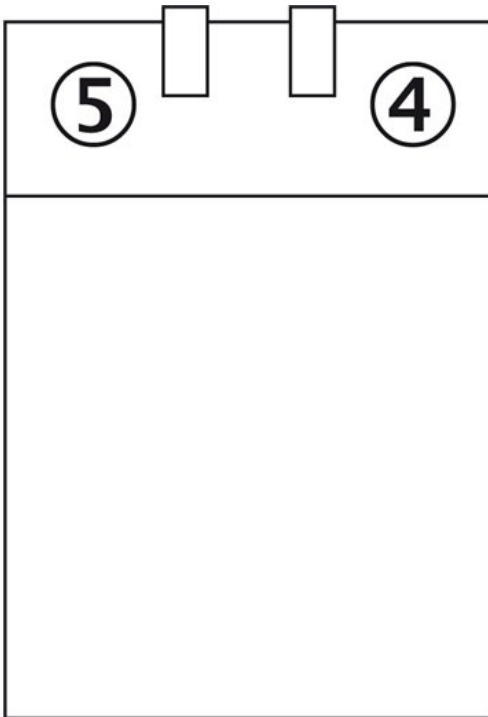
Signal voltage PNP HIGH/LOW:	VS - ( $\leq 3$ V)/approx. 0 V
Output current I <sub>max</sub> ..:	$\leq 100$ mA <sup>3)</sup>
Response time:	$< 625$ $\mu$ s <sup>4)</sup>
Switching frequency:	1,000 Hz <sup>5)</sup>
Connection type:	Cable with Tyco connector, 550 mm <sup>6)</sup>
Cable material:	PVC
Conductor cross-section:	0.14 mm <sup>2</sup>
Circuit protection:::	A, B, D <sup>7) 8) 9)</sup>
Weight:	60 g
Polarisation filter:	✓
AS-Interface-Chip:	-
Housing material:	ABS/PC, Plastic
Optics material:	PMMA
Enclosure rating:	IP 67
Ambient operating temperature:	-25 °C ... 55 °C
Ambient storage temperature:	-40 °C ... 70 °C

1) Limit values, operation in short-circuit protected network max. 8 A 2) Without load 3) At Vs > 24 V, I<sub>A</sub> max = 50 mA 4) Signal transit time with resistive load 5) With light/dark ratio 1:1 6) Do not bend below 0 °C 7) A = V<sub>S</sub> connections reverse-polarity protected 8) B = inputs and output reverse-polarity protected 9) D = outputs overcurrent and short-circuit protected

## Dimensional drawing



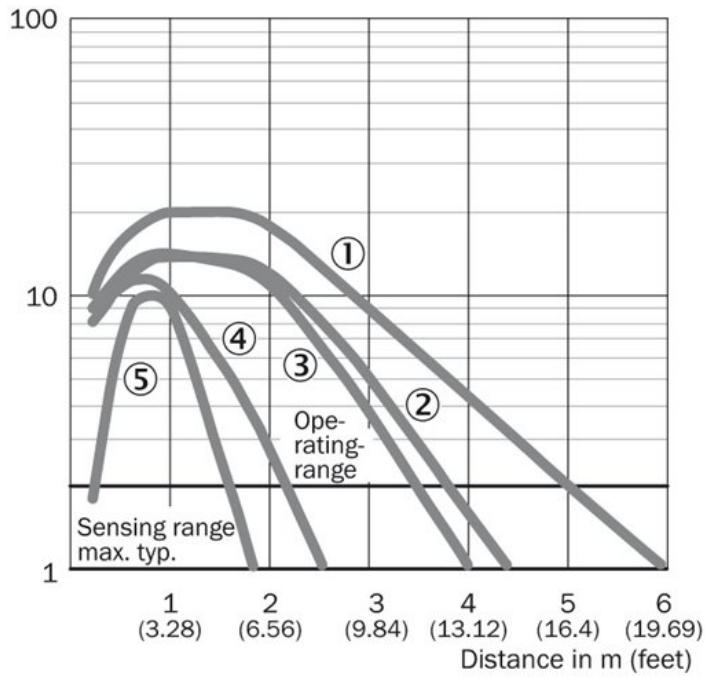
**Adjustments possible**



- |4| Status indicator LED green: power on
- |5| Status indicator LED, yellow: Status of received light beam

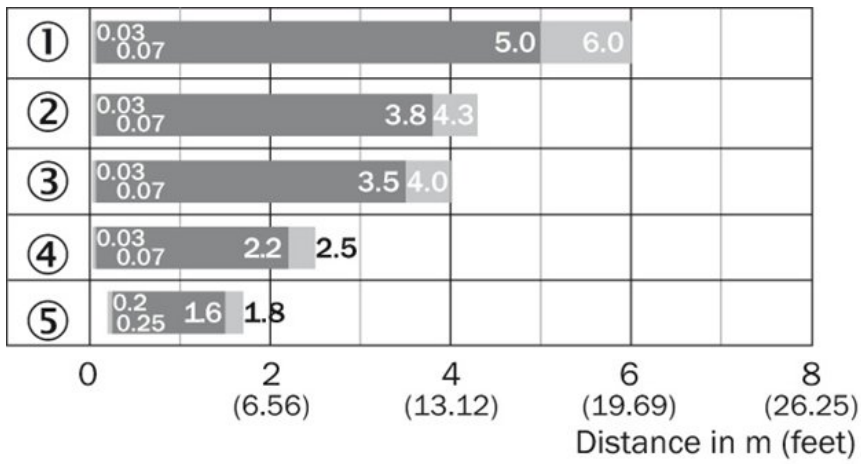
**Characteristic curve**

Operating reserve



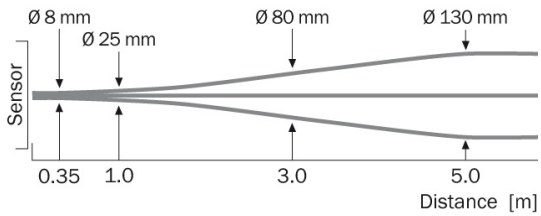
- |1| PL80A
- |2| PL40A
- |3| P250
- |4| PL20A
- |5| REF-IRF-56

### Sensing range diagram



Sensing range     
  Sensing range max.

### Light spot size



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