



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

GL6-P4111S46



Model Name > GL6-P4111S46
Part No. > 1069178



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.:	≤ 7.2 m
Sensing range:	≤ 6 m
Type of light:	Visible red light
Light source:	PinPoint LED ¹⁾
Wave length:	650 nm
Light spot size (distance):	Ø 8 mm (350 mm)

¹⁾ Average service life of 100,000 h at T_A = +25 °C

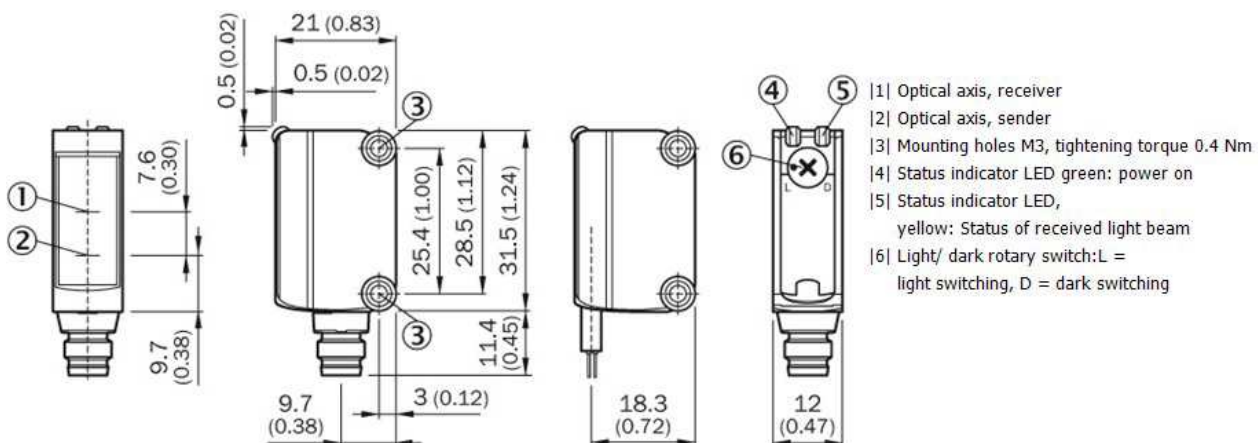
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Residual ripple:	± 10 % ²⁾
Power consumption:	≤ 30 mA ³⁾
Output type:	PNP
Switching mode:	Light/dark switching

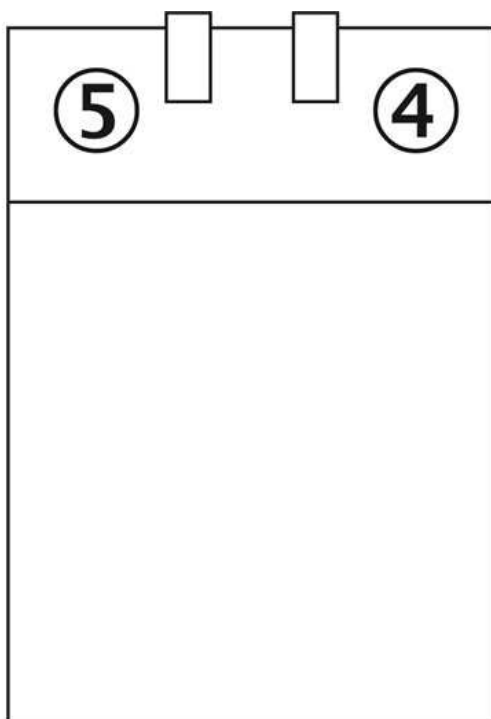
Switching mode selector:	Selectable via light/dark selector
Output current I _{max} ::	≤ 100 mA ⁴⁾
Response time:	< 625 μs ⁵⁾
Switching frequency:	1,000 Hz ⁶⁾
Electrical connection:	Connector M8, 4-pin
Circuit protection:::	A, B, D ^{7) 8) 9)}
Protection class:	III
Weight:	20 g
Polarisation filter:	✓
Optics material:	PMMA
Enclosure rating:	IP 67
Ambient operating temperature:	-25 °C ... +55 °C ¹⁰⁾
Ambient storage temperature:	-40 °C ... +70 °C
UL File No.:	NRKH.E348498 & NRKH7.E348498
Signal voltage PNP HIGH/LOW:	VS - (≤ 3 V)/approx. 0 V
Housing material:	ABS/PC, Plastic

- 1) Limit values, operation in short-circuit protected network max. 8 A²⁾ May not exceed or fall short of V_S tolerances³⁾ Without load⁴⁾ At V_S > 24 V, I_A max = 50 mA
5) Signal transit time with resistive load⁶⁾ With light/dark ratio 1:1⁷⁾ A = V_S connections reverse-polarity protected⁸⁾ B = inputs and output reverse-polarity protected
9) D = outputs overcurrent and short-circuit protected¹⁰⁾ Temperature stability after adjustment +/-10°C

Dimensional drawing

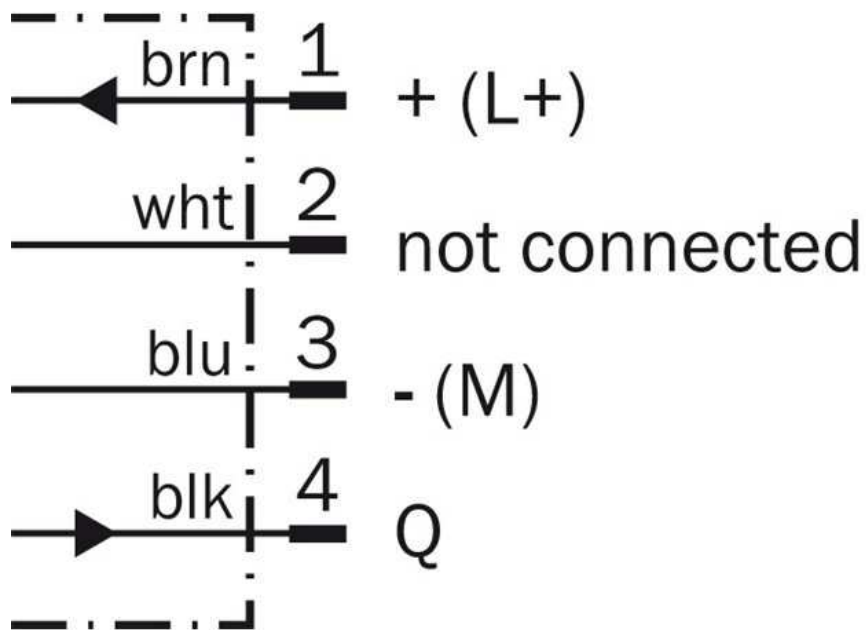


Adjustments possible

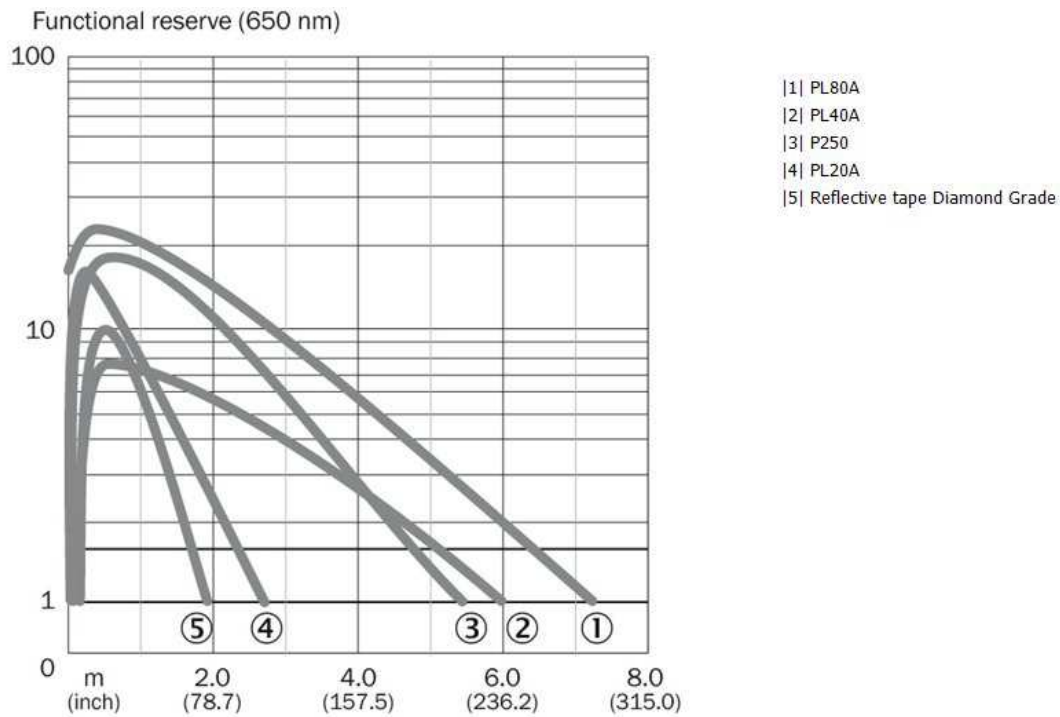


- |4| Status indicator LED green: power on
- |5| Status indicator LED,
yellow: Status of received light beam

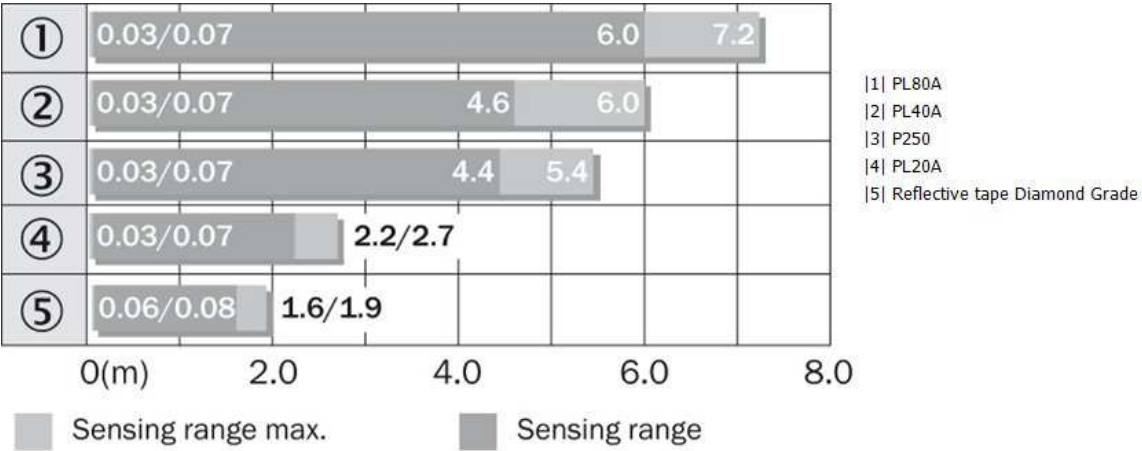
Connection diagram



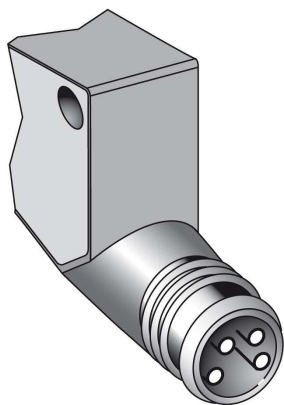
Characteristic curve



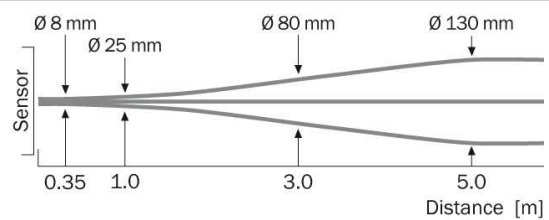
Sensing range diagram



Connection type



Light spot size



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