

GTE6-P0212S49







Photoelectric sensors G6, Photoelectric proximity sensor, energetic

Model Name > GTE6-P0212S49

Part No. > 1070071





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 proximity sensor, energetic

Dimensions (W x H x D): 12 mm x 31.5 mm x 21 mm

Housing design (light emission):

Sensing range max.:

Sensing range:

≤ 300 mm

1)

Sensing range:

≤ 250 mm

Type of light:

Light source:

Wave length:

Contact the properties of the prope

Adjustment: Mechanical spindle, 5 turns

Light spot size (distance): Ø 7 mm (90 mm)

1) Object with 90 % reflectance (referred to standard white, DIN 5033) $^{2)}$ Average service life of 100,000 h at T $_{A}$ = +25 $^{\circ}$ C

Mechanics/electronics

Supply voltage: $10 \text{ V DC} \dots 30 \text{ V DC}^{1)}$ Residual ripple: $\pm 10 \%^{2)}$

Residual ripple: $\pm 10 \%^{2}$ Power consumption: $\leq 30 \text{ mA}^{3}$ Output type: PNP Switching mode: Light/dark switching

Switching mode selector: Selectable via light/dark selector

Output current Imax.: $\leq 100 \text{ mA}^{4)}$ Response time: $< 1,250 \text{ ms}^{5)}$ Switching frequency: $500 \text{ Hz}^{6)}$

Electrical connection: Cable, 3-wire, 5 m ⁷⁾

Cable material: PVC
Conductor cross-section: 0.14 mm²

Circuit protection:::

Protection class:

Weight:

Circuit protection:::

A, B, D

A, B, D

B) 9) 10)

Polarisation filter: -

Optics material: PMMA Enclosure rating: IP 67

Items supplied: Stainless steel mounting bracket (1.4301/304) BEF-W100-A

Ambient operating temperature: -25 °C ... +55 °C ¹¹⁾
Ambient storage temperature: -40 °C ... +70 °C

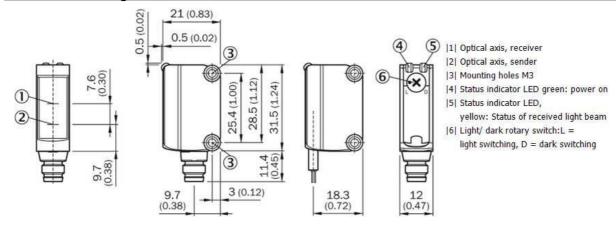
UL File No.: NRKH.E348498 & NRKH7.E348498

Signal voltage PNP HIGH/LOW: VS - (≤ 3 V)/approx. 0 V

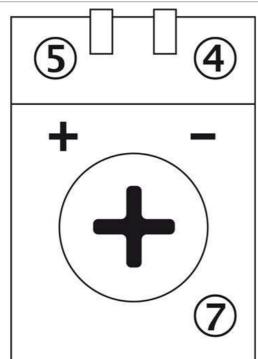
Housing material: ABS/PC, Plastic

1) Limit values, operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of V tolerances 3) Without load 4) At Vs > 24 V, I max = 50 mA 5) Signal transit time with resistive load 6) With light/dark ratio 1:1 7) Do not bend below 0 °C 8) A = V connections reverse-polarity protected 9) B = inputs and output reverse-polarity protected 11) Temperature stability after adjustment +/-10°C

Dimensional drawing

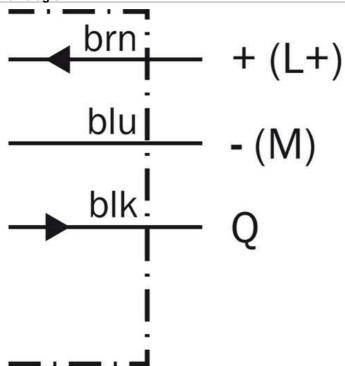


Adjustments possible

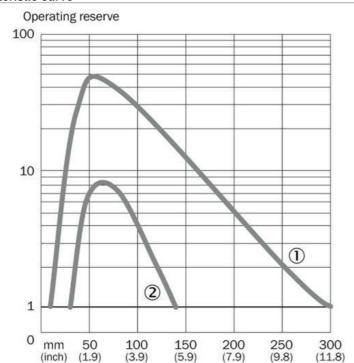


- |4| Status indicator LED green: power on
- |5| Status indicator LED, yellow: Status of received light beam
- |7| Sensitivity adjustment: poti

Connection diagram

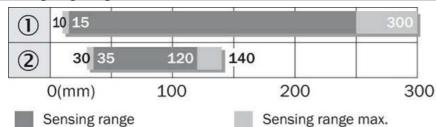


Characteristic curve



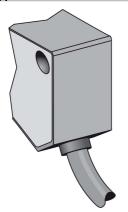
- |1| Sensing range on gray, 18 % remission
- |2| Sensing range on white, 90 % remission

Sensing range diagram

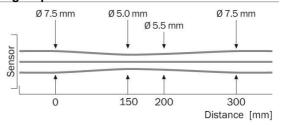


- |1| Object with 90% remission (referred to standard white DIN 5033)
- |2| Sensing range on gray, 18 % remission

Connection type



Light spot size



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