

WL9L-3P2432S01







Photoelectric sensors W9L-3, Photoelectric retro-reflective sensor, autocollimation

Model Name > WL9L-3P2432S01

Part No. > 1058177



At a glance

- Tough VISTAL™ housing
- · Precise laser light spot
- · Laser class 1
- · Autocollimation optics and polarizing filter
- Teach-in
- · Optimized SICK ASIC technology
- · Connections: M8 and M12 plugs, cable as well as cable with plug
- · M3 hole pattern

Your benefits

- · Precise detection of small objects and object features
- · Detection of objects even through small openings
- Less machine downtime thanks to the stable VISTAL™ housing
- The longest sensing ranges in its class
- · No blind spots, also detects shiny objects
- · Wide range of connection options
- · Multiple mounting options
- · Highly visible light spot simplifies alignment



Illustration may differ

(ECSLAB (1)

Features

Sensor/detection principle:

Dimensions (W x H x D):

Housing design (light emission):

Mounting hole:

Sensing range max.:

Sensing range:

Type of light:

Light source:

Laser class:

Special features:

Adjustment:

Light spot size (distance):

1) 2) PL80A $^{3)}$ Average service life 50,000 h at T $_{A}$ = +25 $^{\circ}$ C

Photoelectric retro-reflective sensor, autocollimation

12.2 mm x 52.2 mm x 23.6 mm

Rectangular

М3

0 m ... 12 m

0 m ... 8 m²

Visible red light

Laser 3)

1, 1 (IEC 60825-1/CDRH 21 CFR 1040.10 & 1040.11)

Focus in 100 mm

Single teach-in button

Ø 0.2 mm (100 mm)

Mechanics/electronics

10 V DC ... 30 V DC ¹⁾ Supply voltage: Ripple: \leq 30 mA $^{3)}$ Power consumption:

PNP 4) Output type:

Output function: Complementary Light/dark switching ⁵⁾ Switching mode:

Output current Imax.: ≤ 100 mA ≤ 0.5 ms ⁶⁾ 1,000 Hz ⁷⁾ Response time: Switching frequency:

Connector M12, 4-pin A, B, C 8) 9) 10) Connection type:

Circuit protection:::

Ш Protection class: 13 g Weight: Polarisation filter: Special device:

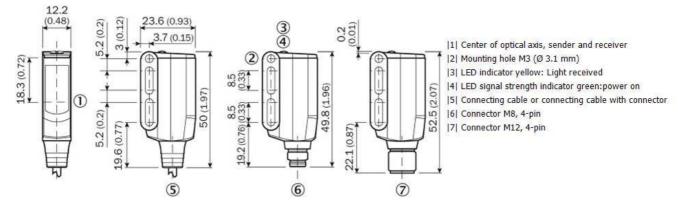
Optics material: **PMMA** Enclosure rating: **IP 66 IP 67 IP 69K**

Ambient operating temperature: -10 °C ... +50 °C -30 °C ... +70 °C Ambient storage temperature: -30 °C ... +55 °C 11) 12) Ambient operating temperature extended::

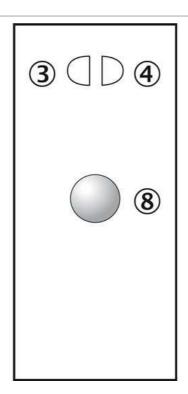
UL File No.: NRKH.E181493 Housing material: Plastic, VISTAL

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) 5) Q = light-switching 6) Signal transit time with resistive load 7) With light/dark ratio 1:1 8) A = V connections reverse-polarity protected 9) B = inputs and output reverse-polarity protected 10) C = interference suppression As of T = 50 °C, a max. supply voltage V = 24 V and a max. load current I = 50 mA is permitted Using the sensor below T a = -10 °C is possible, if the sensor is turned on at T > -10 °C, then the environment cools down and the sensor is not disconnected from the supply voltage during the whole time. It is not allowed to turn on the sensor below $T_a = -10 \, ^{\circ}\text{C}$

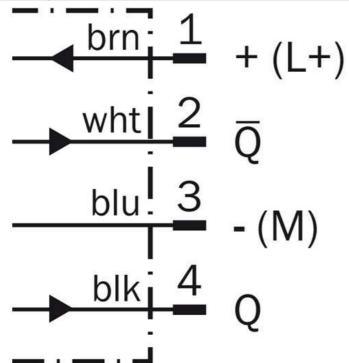
Dimensional drawing



Adjustments possible



- |3| LED indicator yellow: Light received
- |4| LED signal strength indicator green:power on
- |8| Teach-in button



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