





# **Model Number**

#### GL50-IR/32/40a/98a

Photoelectric slot sensor with 3-pin, M8 x 1 connector

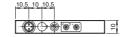
## **Features**

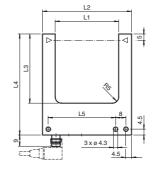
- Optimized for the detection of small parts
- · High switching frequency
- Multiple device installation possible, no mutual interference (no cross-talk)
- Sensitivity adjuster and light/dark switch as standard features of this series
- Infrared light
- Degree of protection IP67
- · cULus approval
- Diecast zinc housing, powder coated

## **Product information**

Photoelectric slot sensors offer vast installation benefits thanks to their housing design. When it comes to operation, these new generation devices boast features such as high resolution, high repeatability, automatic signal threshold adjustment, ambient light resistance, and detection of and/or light transmission through transparent objects. Cross-talk protection enables parallel installation of devices despite extremely high switching frequency. These characteristics guarantee reliable detection of small parts, from 0.3 mm, across the entire detection range, even in very fast moving applications.

## **Dimensions**

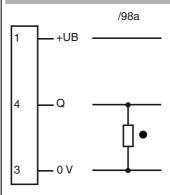






	L1	L2	L3	L4	L5
GL30	30	50	35	60	33
GL50	50	70	55	80	53
GL80	80	100	55	80	83

## **Electrical connection**

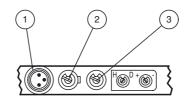


- O = Light on
- = Dark on

# **Pinout**



# Indicators/operating means



1	Functional display	red
2	Light-/dark switch	

3 Sensitivity adjuster

#### **Technical data** General specifications Light source **IRED** Light type modulated infrared light EN 60947-5-2 Tests Target size 0.3 mm Slot width 50 mm Ambient light limit 100000 Lux Functional safety related parameters $\mathsf{MTTF}_\mathsf{d}$ 1290 a Mission Time (T<sub>M</sub>) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means Function indicator LED red in connector Control elements Sensitivity adjuster, light/dark switch **Electrical specifications** Operating voltage 10 ... 30 V DC, class 2 10 % Ripple $\leq$ 15 mA No-load supply current Output Switching type light/dark on 1 PNP, short-circuit protected, open collector Signal output Switching voltage max. 30 V DC Switching current max. 100 mA 0.05 mm Repeat accuracy Switching frequency f 2 kHz ≤ 250 μs Response time **Ambient conditions** Ambient temperature -20 ... 60 °C (-4 ... 140 °F) Storage temperature -20 ... 75 °C (-4 ... 167 °F) **Mechanical specifications** Degree of protection IP67 Connection M8 connector, 3-pin Material Housing powder coated diecast zinc Optical face glass Mass 90 g Approvals and certificates CE conformity CE UL approval cULus CCC approval CCC approval / marking not required for products rated ≤36 V

## **Accessories**

## V3-GM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

# V3-WM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

Other suitable accessories can be found at www.pepperl-fuchs.com

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