





Model Number

GL50-RT/32/40a/98a

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

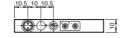
Features

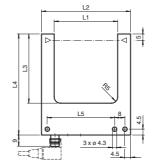
- Optimized for the detection of small
- High switching frequency
- Multiple device installation possible, no mutual interference (no cross-talk)
- Sensitivity adjuster and light/dark switch as standard features of this se-
- Visible red light
- Protection degree IP67
- cULus approval
- Diecast zinc 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

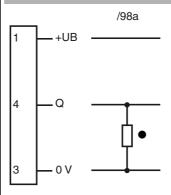






		L1	L2	L3	L4	L5
	GL30	30	50	35	60	33
	GL50	50	70	55	80	53
	GL80	80	100	55	80	83

Electrical connection

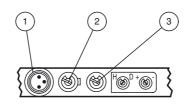


- O = Light on
- = Dark on

Pinout



Indicators/operating means



- Functional display red 2 Light-/dark switch
- 3 Sensitivity adjuster

Technical data General specifications Light source Light type modulated visible red light EN 60947-5-2 Tests Target size 0.3 mm Fork width 50 mm Ambient light limit 100000 Lux Functional safety related parameters MTTF_d 1290 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means Function display LED red in connector Controls Sensitivity adjuster, light/dark switch **Electrical specifications** 10 ... 30 V DC, class 2 Operating voltage 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 Repeat accuracy 0.05 mm Switching frequency f 3 kHz ≤ 160 μs Response time **Ambient conditions** Ambient temperature -20 ... 60 °C (-4 ... 140 °F) Storage temperature -20 ... 75 °C (-4 ... 167 °F) **Mechanical specifications** Protection degree IP67

M8 connector, 3-pin

glass 90 g

CE, cULus

powder coated diecast zinc

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

FPEPPERL+FUCHS

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Connection

Optical face

CCC approval

Approvals

Approvals and certificates

Material Housing