



 ϵ



Model Number

GL10-RT/32/40a/98a

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

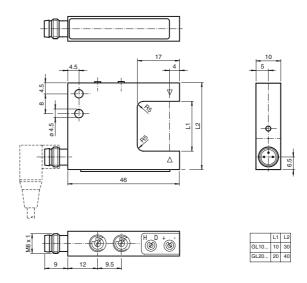
Features

- 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
- · Visible red light
- Degree of protection IP67
- · cULus approval
- Sturdy aluminum housing

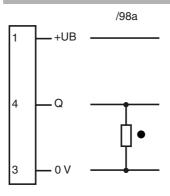
Product information

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



Electrical connection



O = Light on

= Dark on

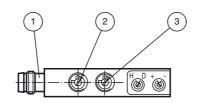
Pinout

Wire colors in accordance with EN 60947-5-2

1 3

BN (brown) BU (blue) BK (black)

Indicators/operating means



1 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 Slot width 10 mm Slot depth 17 mm Ambient light limit 100000 Lux Functional safety related parameters MTTF_d 1290 a Mission Time (T_M) 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 U_{B} 10 % Ripple No-load supply current I_0 \leq 15 mA Output Switching type light/dark on Signal output 1 PNP, short-circuit protected, open collector Switching voltage max. 30 V DC max. 100 mA Switching current Repeat accuracy 0.05 mm 3 kHz Switching frequency Response time ≤ 160 μs Conformity EN 60947-5-2 Product standard **Ambient conditions** -20 ... 60 °C (-4 ... 140 °F) Ambient temperature -20 ... 75 °C (-4 ... 167 °F) Storage temperature **Mechanical specifications** Degree of protection **IP67** Connection M8 connector, 3-pin Material Housing black anodized aluminum Optical face glass 20 g Mass Approvals and certificates CE conformity CE **UL** approval cULus

Operating principle

CCC approval

Photoelectric slot sensors are photoelectric sensors that operate according to the thru-beam sensor principle. The transmitter sends signals directly to the receiver. If an object breaks the light beam, the switching element function is triggered. The special U-shaped design means the transmitter and receiver can be accommodated in one housing, which ensures high resistance to vibrations. In contrast to standard thru-beam sensors, photoelectric slot sensors have the added advantage of not requiring complex electrical installation, as only one device needs to be connected. Also, adjustment of the optical axes is not necessary.

Accessories

V3-WM-2M-PUR

Female cordset single-ended, M8, 3-pin, PUR cable

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

CCC approval / marking not required for products rated ≤36 V