

Model Number

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GL121-RT/30/40a/98a

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

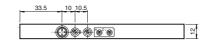
Features

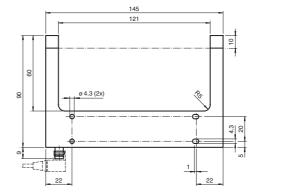
- Optimized for the detection of small parts
- · High switching frequency
- Multiple device installation possible, no mutual interference (no cross-talk)
- Sensitivity adjuster and light/dark switch as standard features of this series
- · Visible red light
- Degree of protection IP67
- · cULus approval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

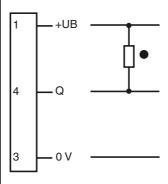
Dimensions







Electrical connection

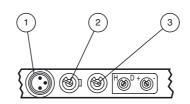


- O = Light on
- = Dark on

Pinout



Indicators/operating means



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

Technical data General specifications Light source LED Light type modulated visible red light Target size 0.3 mm Slot width 121 mm 100000 Lux Ambient light limit Functional safety related parameters $MTTF_d$ 1290 a Mission Time (T_M) 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 U_B 10 ... 30 V DC Ripple 10 % No-load supply current ≤ 15 mA I_0 Output light/dark on Switching type Signal output 1 NPN, short-circuit protected open collector Switching voltage max. 30 V DC Switching current max. 100 mA Repeat accuracy 0.05 mm Switching frequency 3 kHz Response time ≤ 160 μs **Ambient conditions** -20 ... 60 °C (-4 ... 140 °F) Ambient temperature Storage temperature -20 ... 75 °C (-4 ... 167 °F) **Mechanical specifications** IP67 Degree of protection Connection M8 connector, 3-pin Material Housing powder coated diecast zinc Optical face glass 295 g Mass Compliance with standards and directives Directive conformity EMC Directive 2004/108/EC EN 60947-5-2:2007 Approvals and certificates CE conformity CF UL approval cULus Listed, Class 2 Power Source, Type 1 enclosure 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