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Model Number

GL20-RT/32/40a/98a

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

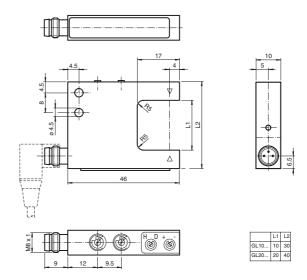
Features

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

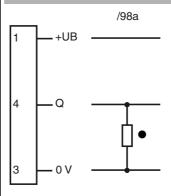
Product information

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

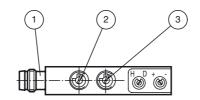
Pinout

ance with EN 60947-5-2



(brown) (blue) (black) BU BK

Indicators/operating means



Functional display red

Light-/dark switch

Sensitivity adjuster

LED modulated visible red light EN 60947-5-2 0.3 mm 20 mm 17 mm 100000 Lux 1290 a 20 a 0 % LED red in connector
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0.3 mm 20 mm 17 mm 100000 Lux 1290 a 20 a 0 %
20 mm 17 mm 100000 Lux 1290 a 20 a 0 %
17 mm 100000 Lux 1290 a 20 a 0 %
100000 Lux 1290 a 20 a 0 %
1290 a 20 a 0 %
20 a 0 %
20 a 0 %
0 %
LED red in connector
LED red in connector
Sensitivity adjuster, light/dark switch
10 30 V DC, class 2
10 %
≤ 15 mA
light/dark on
1 PNP, short-circuit protected, open collector
max. 30 V DC
max. 100 mA
0.05 mm
3 kHz
≤ 160 μs
EN 60947-5-2
-20 60 °C (-4 140 °F)
-20 75 °C (-4 167 °F)
IP67
M8 connector, 3-pin
black anodized aluminum
glass
25 g
CE
CE cULus
CCC approval / marking not required for products rated ≤36 V

Operating principle

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