Photoelectric slot sensor





Model Number

GL20-LAS/32/40a/98a

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

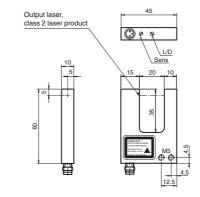
Features

- High switching frequency •
- High resolution •
- Sturdy aluminum housing ٠
- Light/dark switching
- Alignable housing
- Adjustable sensitivity

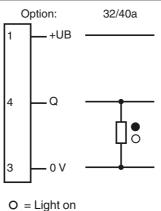
Product information

Photoelectric slot sensors with laser light can be used in applications with specific, demanding requirements and are ideal for highly precise and extremely fast applications. These eye-safe laser devices stand out through attributes that include particularly high switching frequencies of 10 kHz, maximum repeatability of 0.01 mm, automatic signal threshold adjustment, and detection of and/or light transmission through semi-transparent objects. In addition, the devices feature cross-talk protection, which enables devices to be installed adjacent to each other despite very high switching frequency.

Dimensions



Electrical connection

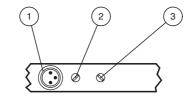




Pinout



Indicators/operating means



| 1 | Functional display yellow | | | |
|---|--|--|--|--|
| 2 | Sensitivity adjuster Light-/dark switch | | | |
| 3 | | | | |

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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| Technical data |
|----------------|
| |

| Technical data | | |
|---|----------|---|
| General specifications | | |
| Light source | | laser diode |
| Light type | | red |
| Laser nominal ratings | | |
| Note | | LASER LIGHT , DO NOT STARE INTO BEAM |
| Laser class | | 2 |
| Wave length | | 650 nm |
| Beam divergence | | 2.6 mrad |
| Maximum optical power output | | < 1 mW |
| Target size | | 0.05 mm |
| Fork width | | 20 mm |
| Ambient light limit | | 10000 Lux |
| Hysteresis | н | < 0.02 mm |
| Indicators/operating means | | |
| Function display | | LED yellow 4 x |
| Controls | | Sensitivity adjuster, light/dark switch |
| Electrical specifications | | |
| Operating voltage | UB | 10 30 V DC |
| No-load supply current | - B | 45 mA |
| Output | v | |
| Switching type | | light/dark on |
| Signal output | | 1 PNP output, short-circuit protected, reverse polarity protected |
| olgha output | | open collector |
| Switching voltage | | max. 30 V DC |
| Switching current | | max. 200 mA |
| Voltage drop | Ud | 2.5 V (200 mA) |
| Switching frequency | f | 10000 Hz |
| Response time | | 50 μs |
| Ambient conditions | | · |
| Ambient temperature | | -10 60 °C (14 140 °F) |
| Mechanical specifications | | |
| Protection degree | | IP65 |
| Connection | | M8 connector, 3-pin |
| Material | | |
| Housing | | black anodized aluminum |
| Optical face | | glass |
| Installation | | may be mounted in rows |
| Mass | | 30 g |
| Compliance with standards and | ldiracti | - |
| ves | lanect | - |
| Directive conformity | | EMC Directive 2004/108/EC |
| Standard conformity | | |
| Product standard | | EN 60947-5-2:2007 |
| | | IEC 60947-5-2:2007 |
| Laser class | | IEC 60825-1:2007 |
| | | |
| Approvals and certificates | | |
| CCC approval | | CCC approval / marking not required for products rated \leq 36 V |
| aser notice laser class | s 2 | |
| | | tion especially in a dark environment. Do not poin |
| at people! | 0 11110 | |
| | the be | aml |
| Caution: Do not look into | | |
| | shoul | d only be carried out by authorized service persor |
| nel! | | |
| | | a material talla da de la destra de la desta de la de la de la desta |
| Attach the device so that | | |
| Attach the device so that | | arning is clearly visible and readable. ustments or performance of procedures other thai |



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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