



## **Model Number**

### GL50-LAS/32/40a/98a

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

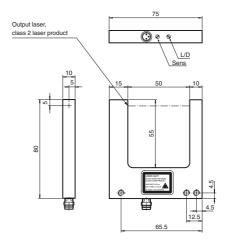
#### **Features**

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

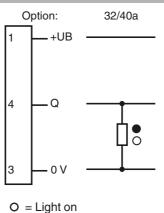
# **Product information**

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**

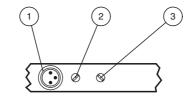




**Pinout** 



# Indicators/operating means



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

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
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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		50 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	I <sub>0</sub>	45 mA
Output		
Switching type		light/dark on
Signal output		1 PNP output, short-circuit protected, reverse polarity protected, 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 ves	directi-	
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 ${\leq}36~V$
Laser notice laser class	2	
at people! <ul> <li>Caution: Do not look into t</li> </ul>	he be	ion especially in a dark environment. Do not point am! d only be carried out by authorized service person-



# 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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