



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 ₀	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! Caution: Do not look into t 	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



2