





Model Number

GL50-RT/30/40a/98a

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

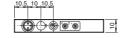
Features

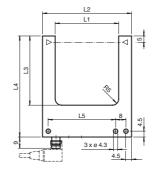
- Optimized for the detection of small parts
- · High switching frequency
- Multiple device installation possible, no mutual interference (no cross-talk)
- Sensitivity adjuster and light/dark switch as standard features of this series
- · Visible red light
- Degree of protection IP67
- · cULus approval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

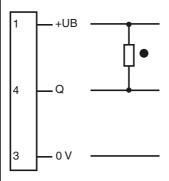






	L1	L2	L3	L4	L5
GL30	30	50	35	60	33
GL50	50	70	55	80	53
GL80	80	100	55	80	83

Electrical connection

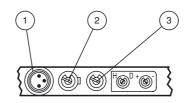


- O = Light on
- = Dark on

Pinout



Indicators/operating means



1	Functional display	red
$\overline{}$	Link /daul.	

² Light-/dark switch3 Sensitivity adjuster

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Technical data		
General specifications		
Light source		LED
Light type		modulated visible red light
Target size		0.3 mm
Slot width		50 mm
Ambient light limit		100000 Lux
Functional safety related param	eters	
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	ОВ	10 %
No-load supply current	I ₀	< 15 mA
Output	.0	_ 15
Switching type		light/dark on
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	f	3 kHz
Response time	•	≤ 160 µs
Ambient conditions		_ 100 μο
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-20 75 °C (-4 167 °F)
		-20 73 0 (-4 107 1)
Mechanical specifications		IP67
Degree of protection Connection		
Material		M8 connector, 3-pin
		nouvelou acatad dispost wine
Housing Optical face		powder coated diecast zinc
Mass		glass
		90 g
Compliance with standards and ves	airecti	•
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2:2007
Approvals and certificates		
CE conformity		CE
UL approval		cULus Listed, Class 2 Power Source, Type 1 enclosure
CCC approval		CCC approval / marking not required for products rated ≤36 V
- < = minimum.		

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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