





# **Model Number**

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

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

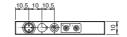
#### **Features**

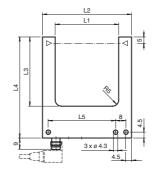
- Optimized for the detection of small parts
- · High switching frequency
- Multiple device installation possible, no mutual interference (no cross-talk)
- Sensitivity adjuster and light/dark switch as standard features of this series
- · Visible red light
- Degree of protection IP67
- · cULus approval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

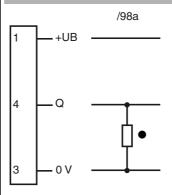






İ		L1	L2	L3	L4	L5
İ	GL30	30	50	35	60	33
	GL50	50	70	55	80	53
	GL80	80	100	55	80	83

## **Electrical connection**

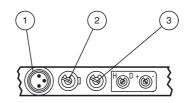


- O = Light on
- = Dark on

# **Pinout**



## Indicators/operating means



1	Functional display	red
2	Light-/dark switch	

<sup>3</sup> Sensitivity adjuster

Technical data			
General specifications			
Light source		LED	
Light type		modulated visible red light	
Tests		EN 60947-5-2	
Target size		0.3 mm	
Slot width		50 mm	
Ambient light limit		100000 Lux	
Functional safety related parameter	eters		
MTTF <sub>d</sub>		1290 a	
Mission Time (T <sub>M</sub> )		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, class 2	
Ripple	- 6	10 %	
No-load supply current	I <sub>0</sub>	≤ 15 mA	
Output	U		
Switching type		light/dark on	
Signal output		1 PNP, 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			
Ambient temperature		-20 60 °C (-4 140 °F)	
Storage temperature		-20 75 °C (-4 167 °F)	
Mechanical specifications		20 70 0 ( 1 107 1 )	
Degree of protection		IP67	
Connection		M8 connector, 3-pin	
Material		Mo connector, o pin	
Housing		powder coated diecast zinc	
Optical face		glass	
Mass		90 g	
Approvals and certificates			
		CE	
CE COMORNIO		<del>-</del>	
CE conformity UL approval		cULus	

# 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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