Photoelectric slot sensor



CE

Model Number

GL30-RT/30/40a/98a

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

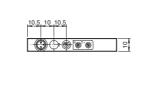
Features

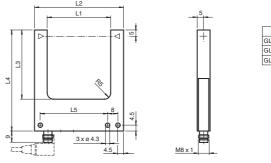
- Optimized for the detection of small • parts
- High switching frequency ٠
- Multiple device installation possible, • no mutual interference (no cross-talk)
- Sensitivity adjuster and light/dark • switch as standard features of this series
- Visible red light
- Degree of protection IP67
- cULus approval •
- 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.

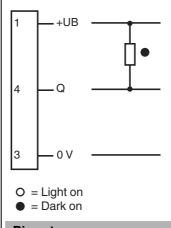
Dimensions







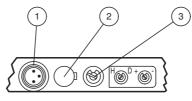
Electrical connection



Pinout



Indicators/operating means



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

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

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



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Technical data		
General specifications		
Light source		LED
Light type		modulated visible red light
Target size		0.3 mm
Slot width		30 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	UB	10 30 V DC
Ripple	D	10 %
No-load supply current	I ₀	≤ 15 mA
Output	U	
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		
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-20 75 °C (-4 167 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		M8 connector, 3-pin
Material		
Housing		powder coated diecast zinc
Optical face		glass
Mass		60 g
Compliance with standards and ves	direct	-
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 / marking not required for products rated \leq 36 V

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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