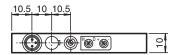


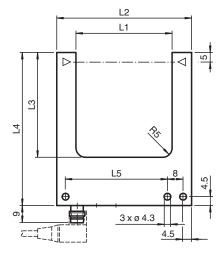
Photoelectric slot sensor, zinc pressure diecast housing, 30 mm slot width, red light, light/dark on, sensitivity adjuster, DC version, NPN output, 3-pin M8 plug

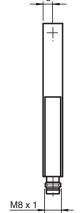
Function

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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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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
Slot depth		35 mm
Ambient light limit		100000 Lux
Functional safety related parameters		
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		10 %
No-load supply current	Io	≤ 15 mA
Output		
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
Conformity		
Product standard		EN 60947-5-2
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 \leq 36 V
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

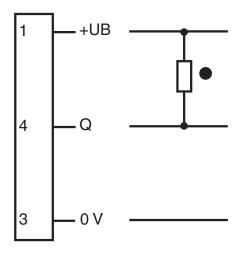
 Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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2

Connection Assignment



- O = Light on
- = Dark on

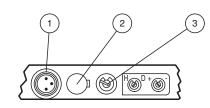
Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

Assembly

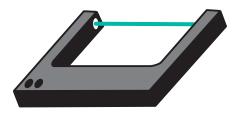


1	Functional display	red
2	Light-/dark switch	
3	Sensitivity adjuster	

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

3

Application



Function Principle

Photoelectric slot sensors are photoelectric sensors that operate according to the thru-beam sensor principle. The transmitter sends signals directly to the receiver. If an object breaks the light beam, the switching element function is triggered. The special U-shaped design means the transmitter and receiver can be accommodated in one housing, which ensures high resistance to vibrations. In contrast to standard thru-beam sensors, photoelectric slot sensors have the added advantage of not requiring complex electrical installation, as only one device needs to be connected. Also, adjustment of the optical axes is not necessary.

Accessories

	V3-WM-2M-PUR
« /	

Female cordset single-ended M8 angled A-coded, 3-pin, PUR cable grey

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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Application

- Small part detection, from object size 0.3 mm
- Can also be used for systems with strong vibrations
- Detection of small needles in transparent hollow needles
- Counting of small parts on conveyors
- Feed and correct separation verification
- Web edge control
- Elevator car position in elevators

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

