









Model Number

GD18/GV18/25/103/159

Thru-beam sensor with 3-pin, M12 x 1 plastic connector

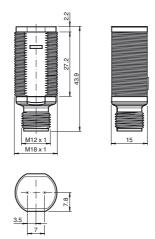
Features

- Efficient Line in a short M18 plastic housing for standard applications
- · Very high detection range
- 4 LEDs indicator for 360° visibility
- · Version with front optical face
- DC voltage version

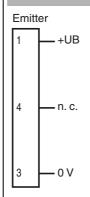
Product information

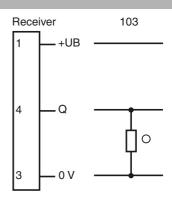
The GLV/GLK18 series sensors help improve the efficiency of machines and systems. The design of the M18 plastic housing, the connection technology, and sensor properties are highly standardized. Concentrating on the key sensor requirements has produced a robust and reliable product series for DC and AC/DC voltage systems without any overengineering. The mounting set included in the scope of delivery and the optimized potentiometer design ensure fast assembly and easy configuration.

Dimensions



Electrical connection



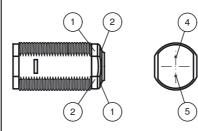


- O = Light on
- = Dark on

Pinout



Indicators/operating means



1	Operating display	green
2	Signal display	yellow
4	Emitter	
5	Receiver	

Technical data			
System components			
Emitter		GD18/159	
Receiver		GV18/25/103/159	
General specifications			
Effective detection range		0 20 m	
Threshold detection range		25 m	
Light source		LED	
Light type		modulated visible red light, 640 nm	
Diameter of the light spot		approx. 1300 mm at 25 m	
• '		approx. 3 °	
Angle of divergence		frontal	
Optical face		30000 Lux	
Ambient light limit		30000 Lux	
Functional safety related para	imeters	000	
MTTF _d		630 a	
Mission Time (T _M)		20 a	
Diagnostic Coverage (DC)		0 %	
Indicators/operating means			
Operating display		LED green, statically lit Power on	
Function display		Receiver: LED yellow, lights up when light beam is free, flashes when falling short of the stability control; OFF when light beam is interrupted	
Electrical specifications			
Operating voltage	U_B	10 30 V DC	
No-load supply current	I ₀	< 20 mA	
Output			
Switching type		light on	
Signal output		1 PNP, short-circuit protected, open collector	
Switching voltage		max. 30 V DC	
Switching current		max. 100 mA	
Voltage drop	U _d	≤ 1.5 V DC	
Switching frequency	f	500 Hz	
Response time		≤ 1 ms	
Ambient conditions			
Ambient temperature		-25 60 °C (-13 140 °F)	
Storage temperature		-40 70 °C (-40 158 °F)	
<u> </u>		10 70 0 (10 100 1)	
Mechanical specifications		ID67	
Protection degree		IP67	
Connection		Connector M12 x 1, 3-pin	
Material		P0	
Housing		PC PANAA	
Optical face		PMMA	
Connector		plastic	
Mass		approx. 10 g per device	
Compliance with standards a ves	nd direct	i-	
Standard conformity		EN 000 47 F 0 0007	
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007	
Approvals and certificates			
Protection class		II, rated insulation voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1	
UL approval		cULus Listed, Class 2 Power Source, Type 1 enclosure	
CCC approval		Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.	

Accessories

CPZ18B03

Mounting Bracket with swivel nut

BF 18

Mounting flange, 18 mm

BF 18-F

Mounting flange with dead stop, 18 mm

Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm

V11-G-2M-PUR

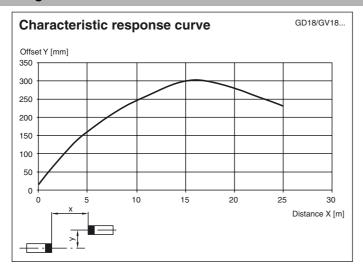
Cable socket, M12, 3-pin, PUR cable

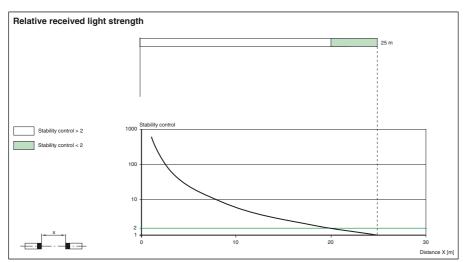
V11-W-2M-PUR

Cable socket, M12, 3-pin, PUR cable

Other suitable accessories can be found at www.pepperl-fuchs.com

Curves/Diagrams





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