

CE

Model Number

GD18/GV18/73/120

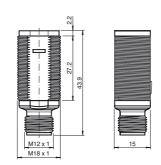
Thru-beam sensor with 4-pin, M12 x 1 plastic connector

Features

- Efficient Line in a short M18 plastic ٠ housing for standard applications
- Very high detection range ٠
- 4 LEDs indicator for 360° visibility •
- Version with front optical face
- DC voltage version ٠

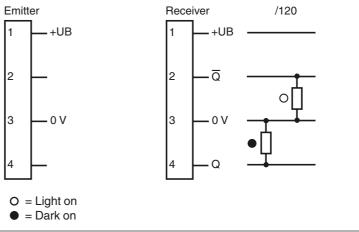
Product information

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.





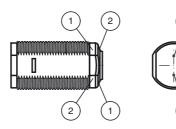
Electrical connection



Pinout



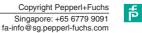
Indicators/operating means



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

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Technical data

System components		
Emitter		GD18/159
Receiver		GV18/73/120
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
Angle of divergence		approx. 3 °
Optical face		frontal
Ambient light limit		30000 Lux
Functional safety related parame	eters	
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	UB	10 30 V DC
No-load supply current	I ₀	< 20 mA
Output		
Switching type		light/dark on
Signal output		2 PNP, complementary, short-circuit protected, open collectors
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)
Mechanical specifications		
Protection degree		IP67
Connection		connector M12 x 1, 4-pin
Material		
Housing		PC
Optical face		РММА
Connector		plastic
Mass		approx. 10 g per device
Compliance with standards and ves	directi-	
Standard conformity		EN 60947-5-2:2007
Product standard		IEC 60947-5-2:2007
Product standard		
Product standard Approvals and certificates Protection class		II, rated insulation voltage \leq 250 V AC with pollution degree
Approvals and certificates Protection class		1-2 according to IEC 60664-1
Approvals and certificates		

Accessories

CPZ18B03 Mounting Bracket with swivel nut

3F 18 Nounting flange, 18 mm

BF 18-F Mounting flange with dead stop, 18 mm

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

1-G-2M-PUR Cable socket, M12, 4-pin, PUR cable

1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

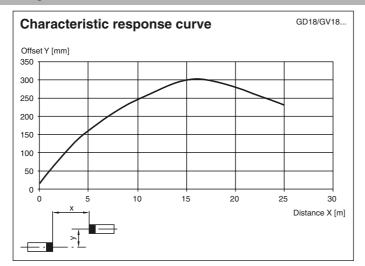
Other suitable accessories can be found at www.pepperl-fuchs.com

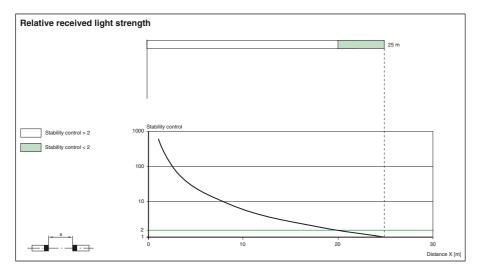


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GD18/GV18/73/120

Curves/Diagrams





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