









Model Number

GLV18-8-200/73/120

Diffuse mode sensor with 4-pin, M12 x 1 plastic connector

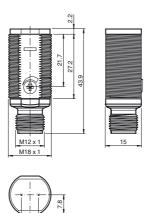
Features

- Efficient Line in a short M18 plastic housing for standard applications
- 4 LEDs indicator for 360° visibility
- Optimized potentiometer design for a clear control button layout in the application
- Version with front optical face
- DC voltage version

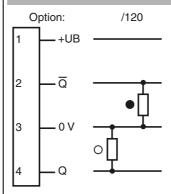
Product information

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

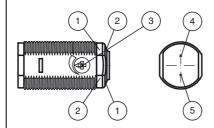


- O = Light on
- = Dark on

Pinout



Indicators/operating means



1	Operating display	green	
2	Signal display	yellow	
3	Sensitivity adjustment		
4	Emitter		
5	Receiver		
_			

Technical data				
General specifications				
Detection range		50 200 mm adjustable		
Detection range max.		0 200 mm		
Reference target		100 mm x 100 mm Kodak white		
Light source		LED		
Light type		modulated visible red light, 640 nm		
Diameter of the light spot		approx. 15 mm at 200 mm		
Angle of divergence		approx. 4 °		
Optical face		frontal		
Ambient light limit		30000 Lux		
Hysteresis	Н	< 15 %		
Functional safety related parameters				
MTTF _d		920 a		
Mission Time (T _M)		20 a		
Diagnostic Coverage (DC)		0 %		
Indicators/operating means				
Operating display		LED green, statically lit Power on		
Function display		LED yellow: lights when object is detected; flashes when falling short of the stability control		
Controls		sensitivity adjustment		
Electrical specifications				
Operating voltage	U _B	10 30 V DC		
No-load supply current	I _O	< 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)		
<u> </u>		10 70 0 (10 100 1)		
Mechanical specifications Protection degree		IP67		
Connection				
Material		connector M12 x 1, 4-pin		
		PC		
Housing		PMMA		
Optical face				
Connector Mass		plastic approx. 10 g		
Compliance with standards and ves	directi-			
Standard conformity				
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007		
A				
Approvals and certificates		II. reted inculation voltage < 050 V/AO with a likeling I		
Protection class		II, rated insulation voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1		
UL approval		cULus Listed, Class 2 Power Source		
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

V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

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

EPPERL+FUCHS

www.pepperl-fuchs.com

Curves/Diagrams

