

CE

Model Number

GLV18-8-450/59/103/159

Diffuse mode sensor with 3-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 ٠
- Optimized potentiometer design for a clear control button layout in the application
- 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

Dimensions





Indicators/operating means



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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001 www.pepperl-fuchs.com

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Technical data		Accessories		
General specifications	CPZ18B03			
Detection range	50 450 mm adjustable	Mounting Bracket with swivel nut		
Detection range max.	0 450 mm	Mounting Bracket with Swiver nut		
Reference target	100 mm x 100 mm Kodak white	BF 18		
Light source	LED	Mounting flange, 18 mm		
Light type	modulated visible red light , 640 nm			
Diameter of the light spot	approx. 30 mm at 400 mm	BF 18-F		
Angle of divergence	approx. 4 °	Plastic mounting adapter, 18 mm		
Optical face	frontal	BE E 20		
Ambient light limit	30000 Lux	BF 5-30 Universal mounting bracket for cylindrica		
Hysteresis H	< 15 %			
Functional safety related parameters	sensors with a diameter of 5 30 mm			
MTTF _d	920 a	V11-G-2M-PUR		
Mission Time (T _M)	20 a			
Diagnostic Coverage (DC)	0 %	Female cordset, M12, 3-pin, PUR cable		
Indicators/operating means	Other suitable accessories can be found a			
Operation indicator	LED green, statically lit Power on	www.pepperl-fuchs.com		
Function indicator	LED yellow: lights when object is detected ; flashes when falling short of the stability control			
Control elements	sensitivity adjustment			
Electrical specifications				
Operating voltage U _B	10 30 V DC			
No-load supply current I ₀	< 20 mA			
Output				
Switching type	dark 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			
Conformity				
Product standard	EN 60947-5-2			
Ambient conditions				
Ambient temperature	-25 60 °C (-13 140 °F)			
Storage temperature	-40 70 °C (-40 158 °F)			
Mechanical specifications				
Degree of protection	IP67			
Connection	3-pin, M12 x 1 connector			
Material				
Housing	PC			
Optical face	PMMA			
Connector	plastic			
Mass	approx. 10 g			
Approvals and certificates				
Protection class	II, rated insulation voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1			

Curves/Diagrams

UL approval

CCC approval



cULus Listed, Class 2 Power Source

CCC approval / marking not required for products rated \leq 36 V

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