

CE

Model Number

GLV18-8-450/59/102/159

Diffuse mode sensor

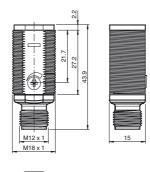
with 3-pin, M12 x 1 plastic connector

Features

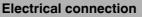
- Efficient Line in a short M18 plastic • housing for standard applications
- Very high detection range ٠
- 4 LEDs indicator for 360° visibility ٠
- Optimized potentiometer design for a clear control button layout in the application
- Version with front optical face
- DC voltage version •

Product information

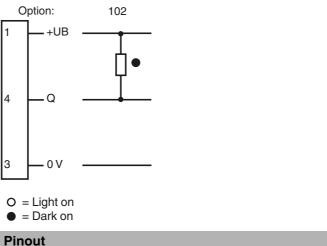
The GLV/GLK18 series sensors help improve the efficiency of machines and systems. The design of the M18 plastic housing, the connection technology, and sensor properties are highly standardized. Concentrating on the key sensor requirements has produced a robust and reliable product series for DC and 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.







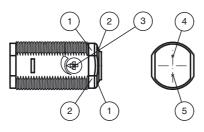
Dimensions







Indicators/operating means



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

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Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

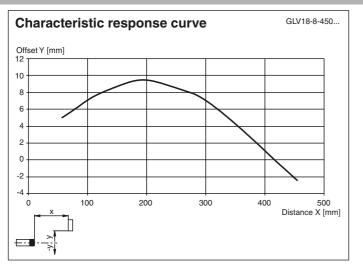
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Technical data			Accessories	
General specifications				
Detection range		50 450 mm adjustable	CPZ18B03	
Detection range max.		0 450 mm	Mounting Bracket with swivel nut	
Reference target		100 mm x 100 mm Kodak white	BF 18	
Light source		LED	Mounting flange, 18 mm	
Light type		modulated visible red light , 640 nm	Mounting hange, to him	
Diameter of the light spot		approx. 30 mm at 400 mm	BF 18-F Plastic mounting adapter, 18 mm	
Angle of divergence		approx. 4 °		
Optical face		frontal		
Ambient light limit		30000 Lux	BF 5-30	
Hysteresis H		< 15 %	Universal mounting bracket for cylind	
Functional safety related para	meters		sensors with a diameter of 5 30 mm	
MTTFd		920 a	V11-G-2M-PUB	
Mission Time (T _M)		20 a		
Diagnostic Coverage (DC)		0 %	Female cordset, M12, 3-pin, PUR cab	
Indicators/operating means	Other suitable accessories can be four			
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	UB	10 30 V DC		
No-load supply current	I ₀	< 20 mA		
Output				
Switching type		dark on		
Signal output		1 NPN, 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		РММА		
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		

UL approval CCC approval

Curves/Diagrams



cULus Listed, Class 2 Power Source

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

Release date: 2019-11-29 14:44 Date of issue: 2019-11-29 188564_eng.xml

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

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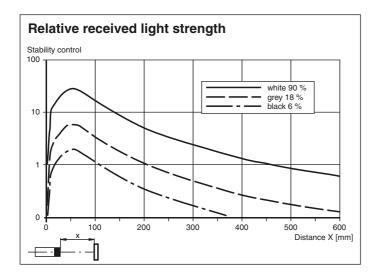
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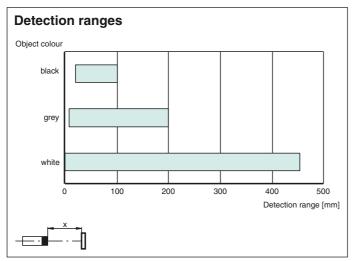
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