

CE C

Model Number

GLV18-8-450/25/102/159

Diffuse mode sensor

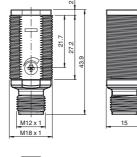
with 3-pin, M12 x 1 plastic connector

Features

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

Product information

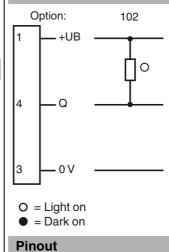
The GLV/GLK18 series sensors help improve the efficiency of machines and systems. The design of the M18 plastic housing, the connection technology, and sensor properties are highly standardized. Concentrating on the key sensor requirements has produced a robust and reliable product series for DC and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





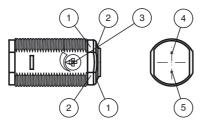
Electrical connection

Dimensions





Indicators/operating means



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

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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 hat
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 °	Mounting flange with dead stop, 18 mm
Optical face	frontal	BF 5-30
Ambient light limit	30000 Lux	
Hysteresis	H < 15 %	Universal mounting bracket for cylindrical
Functional safety related parame	ers	sensors with a diameter of 5 30 mm
MTTF _d	920 a	V11-G-2M-PUR
Mission Time (T _M)	20 a	Cable socket, M12, 3-pin, PUR cable
Diagnostic Coverage (DC)	0 %	Cable Socker, MTZ, 3-pill, FOR Cable
Indicators/operating means	V11-W-2M-PUR	
Operating display	LED green, statically lit Power on	Cable socket, M12, 3-pin, PUR cable
Function display	LED yellow: lights when object is det short of the stability control	
Controls	sensitivity adjustment	www.pepperl-fuchs.com
Electrical specifications		
Operating voltage	J _B 10 30 V DC	
No-load supply current	₀ < 20 mA	
Output		
Switching type	light on	
Signal output	1 NPN, short-circuit protected open	collector
Switching voltage	max. 30 V DC	
Switching current	max. 100 mA	
Voltage drop	$J_d \leq 1.5 V DC$	
Switching frequency	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, 3-pin	
Material		
Housing	PC	
Optical face	PMMA	
Connector	plastic	
Mass	approx. 10 g	
Compliance with standards and ves	recti-	
Standard conformity		
Product standard	EN 60947-5-2:2007 IEC 60947-5-2:2007	
Approvals and certificates		
Protection class	II, rated insulation voltage \leq 250 V 1-2 according to IEC 60664-1	AC with pollution degree
UL approval	cULus Listed, Class 2 Power Source	e e
CCC approval	Products with a maximum operatin	g voltage of ≤36 V do not

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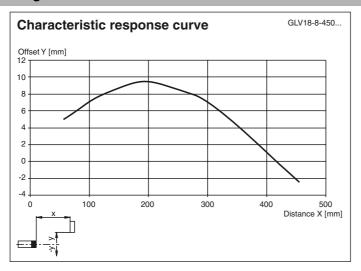
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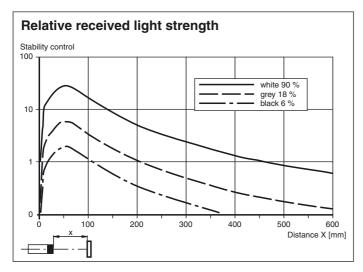
bear a CCC marking because they do not require approval.

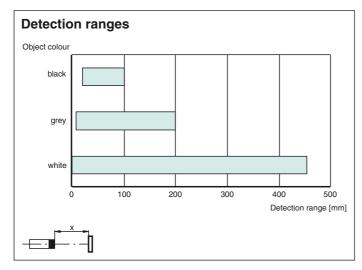
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Curves/Diagrams







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