

CE C

## **Model Number**

# GLV18-8-200/25/102/159

Diffuse mode sensor

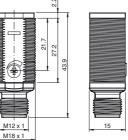
with 3-pin, M12 x 1 plastic connector

#### **Features**

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

### **Product information**

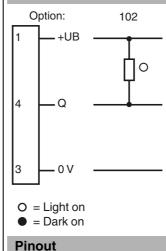
The GLV/GLK18 series sensors help improve the efficiency of machines and systems. The design of the M18 plastic housing, the connection technology, and sensor properties are highly standardized. Concentrating on the key sensor requirements has produced a robust and reliable product series for DC and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





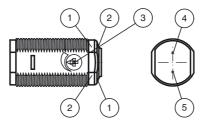
## **Electrical connection**

Dimensions





#### Indicators/operating means



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

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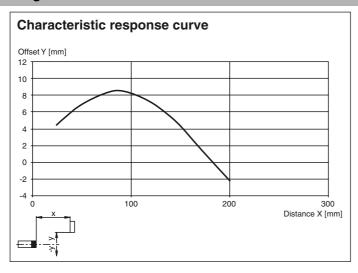
Technical data		Accessories	
General specifications			CPZ18B03
Detection range		50 200 mm adjustable	Mounting Bracket with swivel nut
Detection range max.		0 200 mm	Mounting Dracket with Swiver nut
Reference target		100 mm x 100 mm Kodak white	BF 18
Light source		LED	Mounting flange, 18 mm
Light type		modulated visible red light , 640 nm	
Diameter of the light spot		approx. 15 mm at 200 mm	BF 18-F
Angle of divergence		approx. 4 °	Mounting flange with dead stop, 18 mm
Optical face		frontal	
Ambient light limit		30000 Lux	BF 5-30
Hysteresis	Н	< 15 %	Universal mounting bracket for cylindrica
Functional safety related para	meters		sensors with a diameter of 5 30 mm
MTTF <sub>d</sub>		920 a	
Mission Time (T <sub>M</sub> )		20 a	V11-G-2M-PUR
Diagnostic Coverage (DC)		0 %	Cable socket, M12, 3-pin, PUR cable
Indicators/operating means			V11-W-2M-PUR
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	Cable socket, M12, 3-pin, PUR cable Other suitable accessories can be found at
Controls		sensitivity adjustment	www.pepperl-fuchs.com
Electrical specifications		scholdwig dojustnem	www.peppen-rachs.com
Operating voltage	11-	10 30 V DC	
No-load supply current	U <sub>B</sub> I <sub>0</sub>	< 20 mA	
	10	< 20 IIIA	
Output		links an	
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	Ud	≤ 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, 3-pin	
Material			
Housing		PC	
Optical face		PMMA	
Connector		plastic	
Mass		approx. 10 g	
Compliance with standards ar ves	nd direct	i-	
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 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	

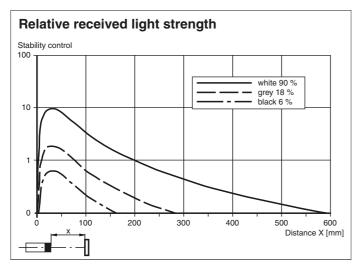
Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

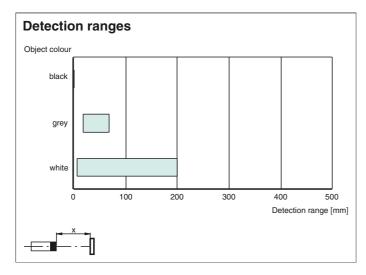
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# **Curves/Diagrams**







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