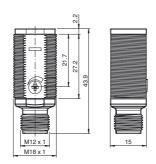
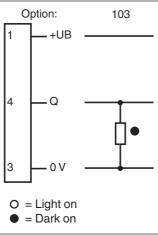


### Dimensions





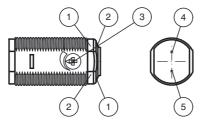
## **Electrical connection**







#### Indicators/operating means



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

#### **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 •
- 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.

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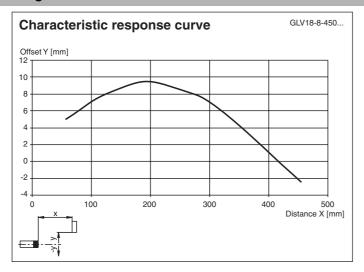
Technical data			Accessories	
General specifications		CPZ18B03		
Detection range		50 450 mm adjustable		
Detection range max.		0 450 mm	Mounting Bracket with swivel nut	
Reference target		100 mm x 100 mm Kodak white	BF 18	
Light source		LED	Mounting flange, 18 mm	
Light type		modulated visible red light , 640 nm		
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		
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	V11-G-2M-PUR Cable socket, M12, 3-pin, PUR cable	
Mission Time (T <sub>M</sub> )		20 a		
Diagnostic Coverage (DC)		0 %		
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 detected ; flashes when falling	Cable Socket, M12, 3-pill, FUR cable	
		short of the stability control	Other suitable accessories can be found a	
Controls		sensitivity adjustment	www.pepperl-fuchs.com	
Electrical specifications				
Operating voltage	UB	10 30 V DC		
No-load supply current	I <sub>0</sub>	< 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 <sub>d</sub>	≤ 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		РММА		
Connector		plastic		
Mass		approx. 10 g		
Compliance with standards an ves	nd directi	-		
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 $\leq 36$ V do not beer a CCC marking because they do not require approval		

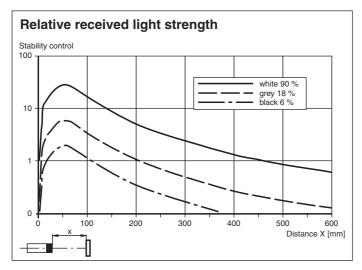
Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

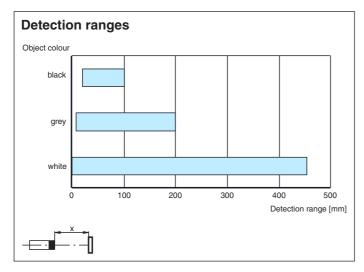
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# **Curves/Diagrams**







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