





CE 

## **Model Number**

#### GLV18-8-H-120/59/102/115

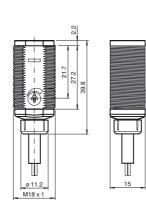
Background suppression sensor with 2 m fixed cable

#### **Features**

- Efficient Line in a short M18 plastic • housing for standard applications
- Best background suppressor in its ٠ class
- Minimal black-white difference .
- 4 LEDs indicator for 360° visibility •
- Optimized potentiometer design for a clear control button layout in the application

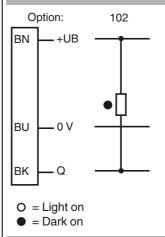
### **Product information**

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.

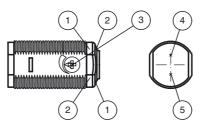




### **Electrical connection**



## Indicators/operating means



1	Operating display green		
2	Signal display	yellow	
3	Detection range adjuster		
4	Emitter		
5	Receiver		

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" www.pepperl-fuchs.com

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Technical data			Accessories	
General specifications		10 100 mm	CPZ18B03	
Detection range Detection range min.		10 120 mm	Mounting Bracket with swivel nut	
Ū		10 40 mm 15 120 mm	BF 18	
Detection range max.		40 120 mm		
Adjustment range		100 mm x 100 mm Kodak white	Mounting flange, 18 mm	
Reference target			BF 18-F	
Light source			Mounting flange with dead stop, 18 mm	
Light type Black/White difference (6 %/9	20.9/1	modulated visible red light , 640 nm	Mounting hange with dead stop, 10 mm	
Diameter of the light spot	90 %)		BF 5-30	
Angle of divergence		approx. 6 mm at detection range 120 mm approx. 2 °	Universal mounting bracket for cylindrical	
Optical face		frontal	sensors with a diameter of 5 30 mm	
Ambient light limit		30000 Lux		
Hysteresis	Н	<2 %	Other suitable accessories can be found at	
-			www.pepperl-fuchs.com	
Functional safety related pa	ameters	1240 0		
MTTF <sub>d</sub> Mission Time (T)		1340 a		
Mission Time (T <sub>M</sub> )		20 a 0 %		
Diagnostic Coverage (DC)		U 70		
Indicators/operating means				
Operation indicator		LED green, statically lit Power on		
Function indicator		LED yellow: lights when object is detected		
Control elements		Detection range adjuster		
Electrical specifications				
Operating voltage	UB	10 30 V DC		
No-load supply current	I <sub>0</sub>	< 15 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 <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		-30 70 °C (-22 158 °F)		
Mechanical specifications				
Degree of protection		IP67		
Connection		2 m fixed cable		
Material				
Housing		PC		
Optical face		PMMA		
Cable		PVC		
Mass		approx. 75 g		
Compliance with standards ves	and direct	j.		
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		

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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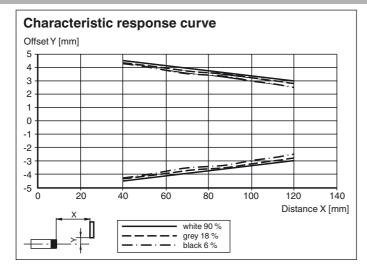
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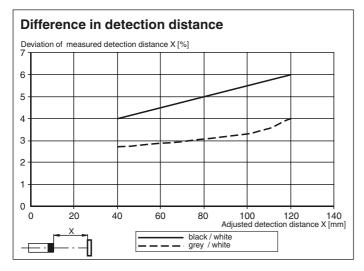
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# **Curves/Diagrams**





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