









Model Number

GLV18-8-450/59/103/159

Diffuse mode sensor with 3-pin, M12 x 1 plastic connector

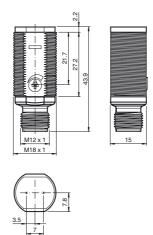
Features

- Efficient Line in a short M18 plastic housing for standard applications
- · Very high detection range
- 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

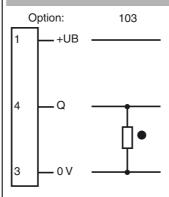
Product information

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



Electrical connection

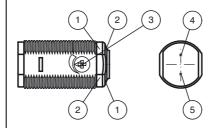


- O = Light on
- = Dark on

Pinout



Indicators/operating means



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

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Technical data General specifications 50 ... 450 mm adjustable Detection range Detection range max. 0 ... 450 mm 100 mm x 100 mm Kodak white Reference target Light source modulated visible red light, 640 nm Light type Diameter of the light spot approx. 30 mm at 400 mm Angle of divergence approx. 4 Optical face frontal Ambient light limit 30000 Lux Н Hysteresis < 15 % Functional safety related parameters 920 a $MTTF_d$ Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means 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 sensitivity adjustment Controls **Electrical specifications** 10 ... 30 V DC Operating voltage U_{B} No-load supply current < 20 mA I₀ 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 ≤ 1.5 V DC Voltage drop U_d 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 Connector M12 x 1, 3-pin Connection Material Housing PC PMMA Optical face Connector plastic Mass approx. 10 g Compliance with standards and directives Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates II, rated insulation voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1 Protection class UL approval cULus Listed, Class 2 Power Source CCC approval Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

Accessories

CPZ18B03

Mounting Bracket with swivel nut

BF 18

Mounting flange, 18 mm

BF 18-F

Mounting flange with dead stop, 18 mm

Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm

V11-G-2M-PUR

Cable socket, M12, 3-pin, PUR cable

V11-W-2M-PUR

Cable socket, M12, 3-pin, PUR cable

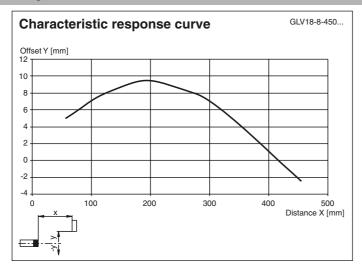
Other suitable accessories can be found at www.pepperl-fuchs.com

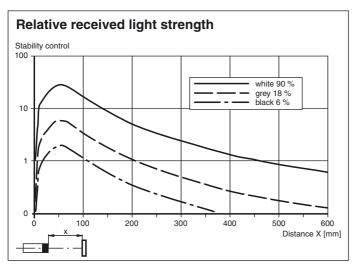
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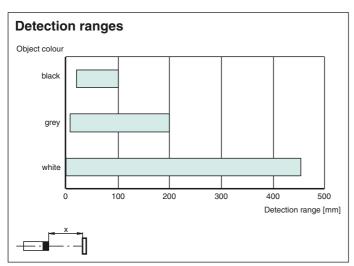
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Curves/Diagrams







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