









Model Number

GLV18-8-H-120/25/102/159

Background suppression sensor with 3-pin, M12 x 1 plastic connector

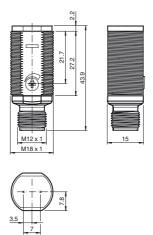
Features

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

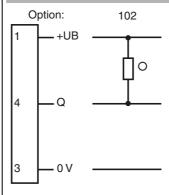
Product information

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.

Dimensions



Electrical connection

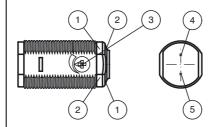


- O = Light on
- = Dark on

Pinout



Indicators/operating means



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

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Technical data General specifications 10 ... 120 mm Detection range Detection range min. 10 ... 40 mm 15 ... 120 mm Detection range max Adjustment range 40 ... 120 mm 100 mm x 100 mm Kodak white Reference target Light source modulated visible red light, 640 nm Light type Black/White difference (6 %/90 %) < 6 % Diameter of the light spot approx. 6 mm at detection range 120 mm Angle of divergence approx. 2 Optical face frontal Ambient light limit 30000 Lux Hysteresis < 2 % Functional safety related parameters 1340 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 Controls Detection range adjuster **Electrical specifications** Operating voltage 10 ... 30 V DC U_{B} No-load supply current I_0 < 15 mA Output Switching type liaht on 1 NPN, short-circuit protected open collector Signal output Switching voltage max. 30 V DC Switching current max. 100 mA Voltage drop U_d ≤ 1.5 V DC Switching frequency 500 Hz Response time ≤ 1 ms **Ambient conditions** Ambient temperature -25 ... 60 °C (-13 ... 140 °F) -40 ... 70 °C (-40 ... 158 °F) Storage temperature Mechanical specifications Protection degree Connection Connector M12 x 1, 3-pin Material PC Housing Optical face **PMMA** plastic Connector Mass approx. 10 g Compliance with standards and directives Standard conformity EN 60947-5-2:2007 Product standard IEC 60947-5-2:2007 Approvals and certificates Protection class II, rated insulation voltage ≤ 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 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

BF 5-30

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

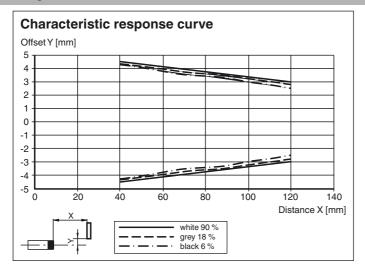
Cable socket, M12, 3-pin, PUR cable

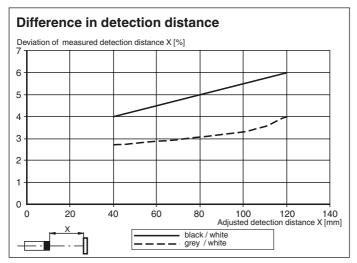
Other suitable accessories can be found at www.pepperl-fuchs.com

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2

Curves/Diagrams





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