









Model Number

GLV18-8-H-120/73/120

Background suppression sensor with 4-pin, M12 x 1 plastic connector

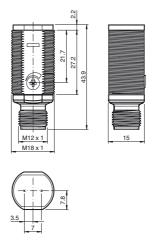
Features

- 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

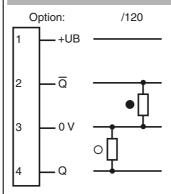
Product information

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

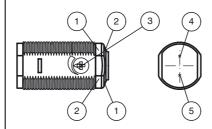
Pinout

2

Wire colors in accordance with EN 60947-5-2

1 | BN (brown) 2 | WH (white) 3 | BU (blue) 4 | BK (black)

Indicators/operating means



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

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 Operation indicator LED green, statically lit Power on Function indicator LED yellow: lights when object is detected Control elements Sensing range adjuster **Electrical specifications** Operating voltage 10 ... 30 V DC U_{B} No-load supply current I_0 < 15 mA Output light/dark on Switching type 2 PNP, complementary, short-circuit protected, open collectors 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 Conformity Product standard EN 60947-5-2 **Ambient conditions** -25 ... 60 °C (-13 ... 140 °F) Ambient temperature -30 ... 70 °C (-22 ... 158 °F) Storage temperature **Mechanical specifications** Degree of protection IP67 Connection 4-pin, M12 x 1 connector Material Housing PC **PMMA** Optical face Connector plastic Mass approx. 10 g Approvals and certificates II, rated insulation voltage ≤ 250 V AC with pollution degree 1-Protection class 2 according to IEC 60664-1 cULus Listed, Class 2 Power Source **UL** approval

Accessories

CPZ18B03

Mounting Bracket with swivel nut

BF 18

Mounting flange, 18 mm

BF 18-F

Plastic mounting adapter, 18 mm

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

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

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

CCC approval

CCC approval / marking not required for products rated ≤36 V

Curves/Diagrams

