











# **Model Number**

### GLV18-8-H-120/25/102/115

Background suppression sensor with 2 m fixed cable

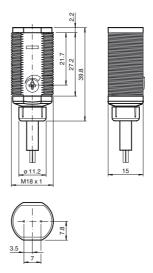
## **Features**

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

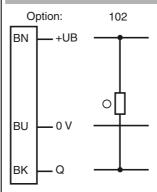
# **Product information**

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**

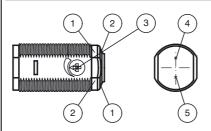


# **Electrical connection**



- O = Light on
- = Dark on

# 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. 40 ... 120 mm Adjustment range 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<sub>d</sub> Mission Time (T<sub>M</sub>) 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 $U_{\mathsf{B}}$ 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 500 Hz Switching frequency 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 2 m fixed cable Material Housing PC **PMMA** Optical face Cable PVC Mass approx. 75 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

### RF 5-30

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

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

**FPEPPERL+FUCHS** 

CCC approval

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

# **Curves/Diagrams**

