









# **Model Number**

## GLV18-8-450/25/102/115

Diffuse mode sensor with 2 m fixed cable

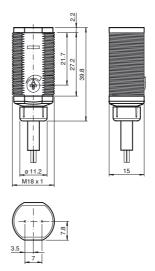
# **Features**

- 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

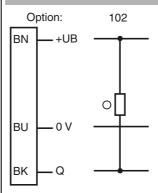
# **Product information**

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**

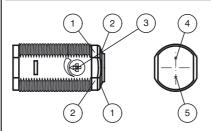


# **Electrical connection**



- O = Light on
- = Dark on

# Indicators/operating means



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

### **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 frontal Optical face Ambient light limit 30000 Lux Hysteresis Н < 15 % Functional safety related parameters 920 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; flashes when falling short of the stability control Control elements sensitivity adjustment **Electrical specifications** 10 ... 30 V DC Operating voltage $U_{\mathsf{B}}$ No-load supply current < 20 mA $I_0$ Output Switching type light on Signal output 1 NPN, short-circuit protected open collector Switching voltage max. 30 V DC Switching current max. 100 mA $\mathbf{U}_{\mathrm{d}}$ ≤ 1.5 V DC Voltage drop Switching frequency 500 Hz Response time < 1 ms Conformity Product standard EN 60947-5-2 **Ambient conditions** Ambient temperature -25 ... 60 °C (-13 ... 140 °F) -40 ... 70 °C (-40 ... 158 °F) Storage temperature **Mechanical specifications** Degree of protection IP67 Connection 2 m fixed cable Material

# Approvals and certificates

Housing

Cable

Mass

Optical face

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

PC

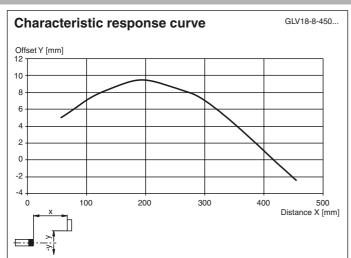
**PMMA** 

approx. 75 g

PVC

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

# **Curves/Diagrams**



## Accessories

## CPZ18B03

Mounting Bracket with swivel nut

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

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

**FPEPPERL+FUCHS** 

