











Model Number

GLV18-8-200/59/103/159

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

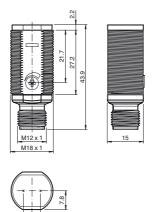
Features

- Efficient Line in a short M18 plastic housing for standard applications
- 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

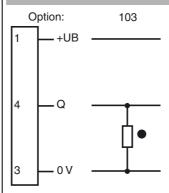
Product information

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

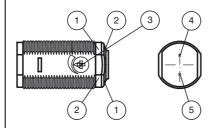
Pinout

4

Wire colors in accordance with EN 60947-5-2

1 BN (brown 3 BU (blue 4 BK (blace

Indicators/operating means



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

Technical data General specifications 50 ... 200 mm adjustable Detection range Detection range max. 0 ... 200 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. 15 mm at 200 mm Angle of divergence approx. 4 ° frontal Optical face 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 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_{B} No-load supply current < 20 mA I_0 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 \mathbf{U}_{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 3-pin, M12 x 1 connector Material Housing PC Optical face **PMMA** plastic Connector

Approvals and certificates

Protection class II, rated insulation voltage \leq 250 V AC with pollution degree 1-

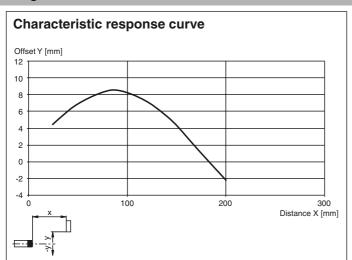
approx. 10 g

2 according to IEC 60664-1

UL approval cULus Listed, Class 2 Power Source

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

V11-G-2M-PUR

Female cordset, M12, 3-pin, PUR cable

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

