



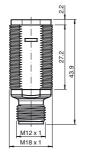








Dimensions







Model Number

GLV18-55/59/102/159

Retroreflective sensor with 3-pin, M12 x 1 plastic connector

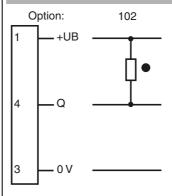
Features

- 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.

Electrical connection



O = Light on

= Dark on

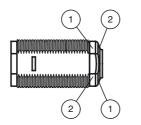
Pinout

Wire colors in accordance with EN 60947-5-2

1 BN 3 BU 4 BK

l (brown) l (blue) (black)

Indicators/operating means





1	Operating display	green
2	Signal display	yellow
4	Emitter	
5	Receiver	

Technical data General specifications Effective detection range 0 ... 4 m Reflector distance 0.05 ... 4 m Threshold detection range 5.5 m Reference target reflector C110-2 LFD Light source Light type modulated visible red light, 640 nm Polarization filter approx. 200 mm at 5.5 m Diameter of the light spot Angle of divergence approx. 2 Optical face frontal Ambient light limit 30000 Lux Functional safety related parameters MTTF_d 920 a Mission Time (T_M) 20 a 0 % Diagnostic Coverage (DC) Indicators/operating means Operation indicator LED green, statically lit Power on LED yellow: lights up when receiving the light beam; flashes Function indicator when falling short of the stability control; OFF when light beam is interrupted **Electrical specifications** 10 ... 30 V DC Operating voltage U_{B} No-load supply current < 20 mA Output Switching type 1 NPN, short-circuit protected open collector Signal output Switching voltage max. 30 V DC max. 100 mA Switching current Voltage drop ≤ 1.5 V DC Switching frequency f 500 Hz ≤ 1 ms Response time 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** IP67 Degree of protection Connection 3-pin, M12 x 1 connector

Approvals and certificates

Material Housing Optical face

Mass

Connector

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

PMMA

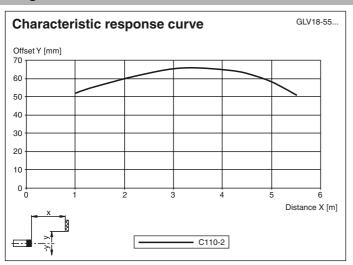
plastic approx. 10 g

2 according to IEC 60664-1

UL approval cULus Listed, Class 2 Power Source

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

Curves/Diagrams



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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

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