

## **Model Number**

#### GLV18-8-H-120/59/102/159

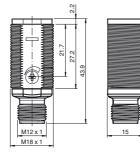
Background suppression sensor with 3-pin, M12 x 1 plastic connector

#### **Features**

- Efficient Line in a short M18 plastic • housing for standard applications
- Best background suppressor in its ٠ 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**

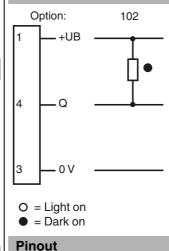
The GLV/GLK18 series sensors help improve the efficiency of machines and systems. The design of the M18 plastic housing, the connection technology, and sensor properties are highly standardized. Concentrating on the key sensor requirements has produced a robust and reliable product series for DC and 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.





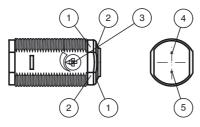
#### **Electrical connection**

Dimensions





## Indicators/operating means



| 1 | Operating display greer  |        |  |  |
|---|--------------------------|--------|--|--|
| 2 | Signal display           | yellow |  |  |
| 3 | Detection range adjuster | •      |  |  |
| 4 | Emitter                  |        |  |  |
| 5 | Receiver                 |        |  |  |

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Optical face

Connector

UL approval

CCC approval

Standard conformity

Product standard

Approvals and certificates Protection class

Compliance with standards and directi-

Mass

ves

| Technical data                 | Accessories    |                                               |                   |
|--------------------------------|----------------|-----------------------------------------------|-------------------|
| General specifications         |                |                                               | CPZ18B03          |
| Detection range                |                | 10 120 mm                                     | Mounting Brack    |
| Detection range min.           |                | 10 40 mm                                      | Mounting Brack    |
| Detection range max.           |                | 15 120 mm                                     | BF 18             |
| Adjustment range               |                | 40 120 mm                                     | Mounting flange   |
| Reference target               |                | 100 mm x 100 mm Kodak white                   |                   |
| Light source                   |                | LED                                           | BF 18-F           |
| Light type                     |                | modulated visible red light , 640 nm          | Mounting flange   |
| Black/White difference (6 %/9  | 0 %)           | < 6 %                                         |                   |
| Diameter of the light spot     |                | approx. 6 mm at detection range 120 mm        | BF 5-30           |
| Angle of divergence            |                | approx. 2 °                                   | Universal mount   |
| Optical face                   |                | frontal                                       | sensors with a d  |
| Ambient light limit            |                | 30000 Lux                                     | VIII O OM DUD     |
| Hysteresis                     | Н              | <2 %                                          | V11-G-2M-PUR      |
| Functional safety related para | ameters        |                                               | Female cordset,   |
| MTTFd                          |                | 1340 a                                        | V11-W-2M-PUR      |
| Mission Time (T <sub>M</sub> ) |                | 20 a                                          | Female cordset,   |
| Diagnostic Coverage (DC)       |                | 0 %                                           | r emaie coruser,  |
| Indicators/operating means     |                |                                               | Other suitable ac |
| Operation indicator            |                | LED green, statically lit Power on            | www.pepperl-fuch  |
| Function indicator             |                | LED yellow: lights when object is detected    |                   |
| Control elements               |                | Detection range adjuster                      |                   |
| Electrical specifications      |                |                                               |                   |
| Operating voltage              | UB             | 10 30 V DC                                    |                   |
| No-load supply current         | I <sub>0</sub> | < 15 mA                                       |                   |
| Output                         | -              |                                               |                   |
| Switching type                 |                | dark on                                       |                   |
| Signal output                  |                | 1 NPN, short-circuit protected open collector |                   |
| Switching voltage              |                | max. 30 V DC                                  |                   |
| Switching current              |                | max. 100 mA                                   |                   |
| Voltage drop                   | U <sub>d</sub> | ≤ 1.5 V DC                                    |                   |
| Switching frequency f          |                | 500 Hz                                        |                   |
| Response time                  |                | ≤1 ms                                         |                   |
| Ambient conditions             |                |                                               |                   |
| Ambient temperature            |                | -25 60 °C (-13 140 °F)                        |                   |
| Storage temperature            |                | -30 70 °C (-22 158 °F)                        |                   |
| Mechanical specifications      |                |                                               |                   |
| Degree of protection           |                | IP67                                          |                   |
| Connection                     |                | 3-pin, M12 x 1 connector                      |                   |
| Material                       |                | - F /                                         |                   |
|                                |                |                                               |                   |

ket with swivel nut

e, 18 mm

e with dead stop, 18 mm

# nting bracket for cylindrical diameter of 5 ... 30 mm

R t, M12, 3-pin, PUR cable

R t, M12, 3-pin, PUR cable

accessories can be found at hs.com

PC

PMMA

plastic

approx. 10 g

EN 60947-5-2:2007

IEC 60947-5-2:2007

2 according to IEC 60664-1

cULus Listed, Class 2 Power Source

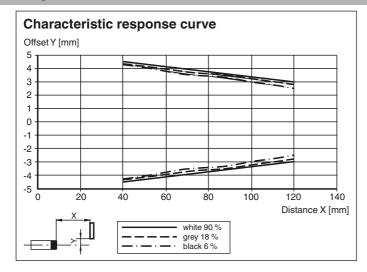
II, rated insulation voltage ≤ 250 V AC with pollution degree 1-

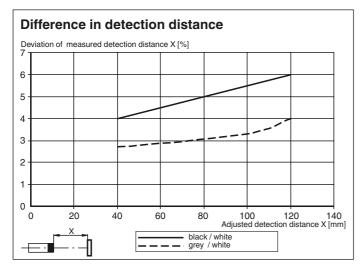
CCC approval / marking not required for products rated ≤36 V



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# **Curves/Diagrams**





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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001 www.pepperl-fuchs.com

