Background suppression sensor

Model Number
GLV30-8-H-2371
Background suppression sensor
4-pin, M12 x 1 connector

Features
• M30 plastic housing
• Dark-On switching

Dimensions

Electrical connection

Pinout
### Technical data

**General specifications**
- **Detection range**: 20 ... 150 mm
- **Detection range min.**: 0 ... 145 mm
- **Detection range max.**: 0 ... 170 mm
- **Background suppression starts from**: 180 mm
- **Light source**: IRED
- **Light type**: modulated infrared light
- **Black/White difference (6 %/90 %)**: < 10 mm
- **Diameter of the light spot**: 4 mm at a distance of 150 mm
- **Angle of divergence**: ± 1 °
- **Ambient light limit**: 30000 Lux

**Indicators/operating means**
- **Function indicator**: LED yellow, lights up if receiver is not lit

**Electrical specifications**
- **Operating voltage** ($U_B$): 24 V DC ± 20 %
- **Ripple**: 10 %
- **No-load supply current** ($I_0$): 30 mA
- **Switching type**: dark on
- **Signal output**: 1 PNP, short-circuit protected, reverse polarity protected, open collector
- **Switching voltage**: max. 30 V DC
- **Switching current**: max. 200 mA
- **Switching frequency** ($f$): 35 Hz
- **Response time**: 10 ms

**Standard conformity**
- **Standards**: EN 60947-5-2

**Ambient conditions**
- **Ambient temperature**: -20 ... 60 °C (-4 ... 140 °F)
- **Storage temperature**: -20 ... 75 °C (-4 ... 167 °F)

**Mechanical specifications**
- **Protection degree**: IP67
- **Connection**: Plastic connector M12 x 1, 4-pin
- **Material**
  - **Housing**: black ABS, Front cover green (for the differentiation of the sensors in the application)
  - **Optical face**: plastic lenses
- **Mass**: approx. 70 g

**Approvals and certificates**
- **UL approval**: cULus Listed, Class 2 Power Source, Type 1 enclosure
- **CCC approval**: CCC approval / marking not required for products rated ≤36 V
- **Approvals**: CE

### Curves/Diagrams

![Characteristic response curve](image)

### Accessories

- **V1-G-2M-PUR**
  - Female cordset, M12, 4-pin, PUR cable

- **V1-W-2M-PUR**
  - Female cordset, M12, 4-pin, PUR cable

- **BF 30**
  - Mounting flange, 30 mm

- **BF 30-F**
  - Mounting flange with dead stop, 30 mm

Other suitable accessories can be found at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)
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Detection ranges

Object colour

- black
- grey
- white

Distance X [mm]

GLV30-8-H-150-IR

0 50 100 150 200

Object colour

- black
- grey
- white

Distance X [mm]