Model Number
GLV30-8-2500/47/73c
Diffuse mode sensor
4-pin, M12 x 1 connector

Features
- M30 plastic housing
- Light/dark switching

Dimensions

Electrical connection

Option: /47

Pinout

Wire colors in accordance with EN 60947-5-2

1. BN (brown)
2. WH (white)
3. BU (blue)
4. BK (black)
### Technical data

#### General specifications
- **Detection range**: 100 ... 2500 mm
- **Adjustment range**: 750 ... 2500 mm
- **Light source**: IRED
- **Light type**: modulated infrared light
- **Diameter of the light spot**: approx. 450 mm at a distance of 2000 mm
- **Angle of divergence**: ± 7 °
- **Ambient light limit**: 30000 Lux

#### Indicators/operating means
- **Function indicator**: LED yellow, lights up if receiver is not lit
- **Control elements**: Sensing range adjuster

#### Electrical specifications
- **Operating voltage**: $U_B = 24\, \text{V DC} \pm 20\%$
- **Ripple**: 10 %
- **No-load supply current**: $I_0 = 30\, \text{mA}$
- **Switching type**: light/dark on
- **Signal output**: 2 PNP, complementary, short-circuit protected, reverse polarity protected
- **Switching voltage**: max. 30 V DC
- **Switching current**: max. 200 mA
- **Switching frequency**: $f = 35\, \text{Hz}$
- **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
- **Degree of protection**: IP67
- **Connection**: Plastic connector M12 x 1, 4-pin
- **Material**: Housing ABS, Optical face plastic lenses
- **Mass**: approx. 70 g

#### Approvals and certificates
- **Approvals**: CCC approval
- **Marking**: CCC approval / marking not required for products rated ≤36 V

### Curves/Diagrams

#### Characteristic response curve

![Characteristic response curve](GLV30-8-2500.png)

**GLV30-8-2500**

**Offset Y [mm]**
- 250
- 200
- 150
- 100
- 50
- 0
- -50
- -100
- -150
- -200
- -250

**Distance X [mm]**
- 0
- 500
- 1000
- 1500
- 2000
- 2500
- 3000

**Curves**
- white 90 %
- grey 18 %

### 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**
- Plastic mounting adapter, 30 mm

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

Object colour

- black
- grey
- white

Distance X [mm]

<table>
<thead>
<tr>
<th>Object Colour</th>
<th>Detection Ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>black</td>
<td>0 - 500</td>
</tr>
<tr>
<td>grey</td>
<td>500 - 1500</td>
</tr>
<tr>
<td>white</td>
<td>1500 - 2500</td>
</tr>
</tbody>
</table>

Refer to “General Notes Relating to Pepperl+Fuchs Product Information”.