Model Number
GLV30-8-H-150-IR/47/73c
Background suppression sensor
connector M12 x 1, 4-pin

Features
- M30 plastic housing
- Light/dark switching

Dimensions

Electrical connection

Pinout

Option:  /47

1  
2  
3  
4  

= Light on

= Dark on
**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 display:** 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

**Output**
- **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 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 ABS
- **Optical face:** Plastic lenses
- **Mass:** approx. 70 g

**Approvals and certificates**
- **CCC approval:** Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

**Curves/Diagrams**

**Characteristic response curve**

GLV30-8-H-150-IR

**Accessories**

**V1-G-2M-PUR**
- Cable socket, M12, 4-pin, PUR cable

**V1-W-2M-PUR**
- Cable socket, 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)
### Detection ranges

**Object colour**

- **black**
- **grey**
- **white**

**Distance X [mm]**

<table>
<thead>
<tr>
<th>Distance X [mm]</th>
<th>Object Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>black</td>
</tr>
<tr>
<td>50</td>
<td>grey</td>
</tr>
<tr>
<td>100</td>
<td></td>
</tr>
<tr>
<td>150</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>white</td>
</tr>
</tbody>
</table>

The diagram illustrates the detection ranges for different object colours at various distances.