



**Model Number**

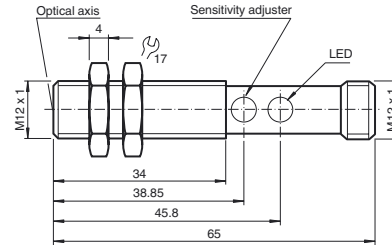
**GLV12-54/37/40b/92**

Retroreflective sensor  
with 4-pin, M12 x 1 connector

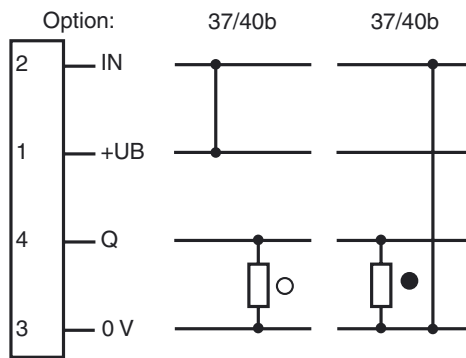
**Features**

- M12 threaded housing made of brass, nickel plated
- Glare protected with polarization filter
- Visible red light
- Light/dark ON, programmable
- Protection degree IP67

**Dimensions**

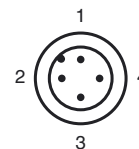


**Electrical connection**



○ = Light on  
● = Dark on

**Pinout**



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**Technical data****General specifications**

|                           |                             |
|---------------------------|-----------------------------|
| Effective detection range | 0 ... 1000 mm               |
| Reflector distance        | 50 ... 1000 mm              |
| Threshold detection range | 1200 mm                     |
| Reference target          | H85 reflector               |
| Light source              | LED, 660 nm                 |
| Light type                | modulated visible red light |
| Approvals                 | CE                          |
| Ambient light limit       | 20000 Lux                   |

**Indicators/operating means**

|                  |                             |
|------------------|-----------------------------|
| Function display | LED yellow: switching state |
| Controls         | sensitivity adjustment      |

**Electrical specifications**

|                                |       |                |
|--------------------------------|-------|----------------|
| Operating voltage              | $U_B$ | 10 ... 30 V DC |
| Ripple                         |       | 10 %           |
| No-load supply current         | $I_0$ | $\leq 20$ mA   |
| Time delay before availability | $t_v$ | $\leq 25$ ms   |

**Input**

|               |                              |
|---------------|------------------------------|
| Control input | light on +UB<br>dark on: 0 V |
|---------------|------------------------------|

**Output**

|                     |  |               |
|---------------------|--|---------------|
| Switching type      | light/dark on  |               |
| Signal output       | 1 PNP output, short-circuit protected, protected from reverse polarity, open collector |               |
| Switching voltage   | max. 30 V DC   |               |
| Switching current   | max. 300 mA  |               |
| Voltage drop        | $U_d$  | $\leq 3$ V    |
| Switching frequency | $f$  | $\leq 700$ Hz |
| Response time       |  | $\leq 0.7$ ms |

**Standard conformity**

|           |              |
|-----------|--------------|
| Standards | EN 60947-5-2 |
|-----------|--------------|

**Ambient conditions**

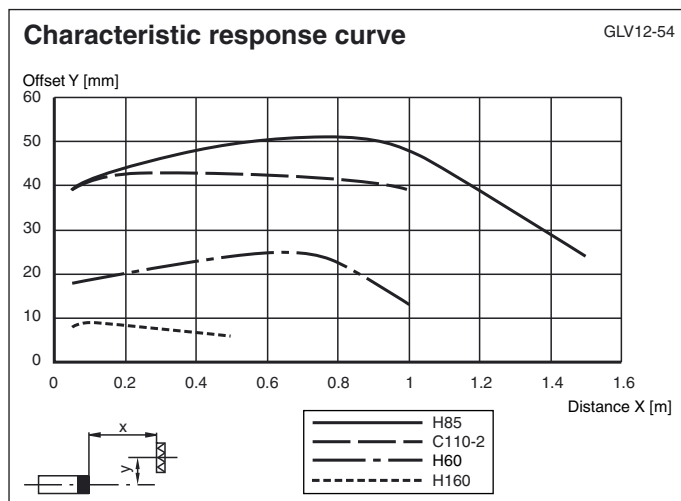
|                     |                                |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 55 °C (-13 ... 131 °F) |
| Storage temperature | -40 ... 70 °C (-40 ... 158 °F) |

**Mechanical specifications**

|                   |                          |
|-------------------|--------------------------|
| Protection degree | IP67                     |
| Connection        | connector M12 x 1, 4-pin |
| Material          |                          |
| Housing           | brass, nickel-plated     |
| Optical face      | PMMA                     |
| Mass              | 15 g                     |

**Approvals and certificates**

|              |  |
|--------------|--|
| CCC approval | Products with a maximum operating voltage of $\leq 36$ V do not bear a CCC marking because they do not require approval. |
|--------------|--|

**Curves/Diagrams****Accessories****V1-G-2M-PUR**

Cable socket, M12, 4-pin, PUR cable

**V1-W-2M-PUR**

Cable socket, M12, 4-pin, PUR cable

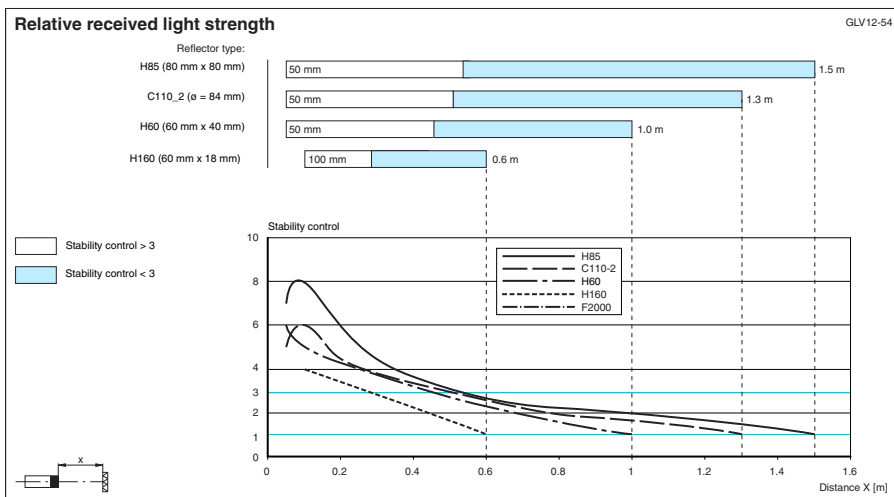
**BF 12**

Mounting flange, 12 mm

**BF 5-30**

Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm

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



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