



Model Number

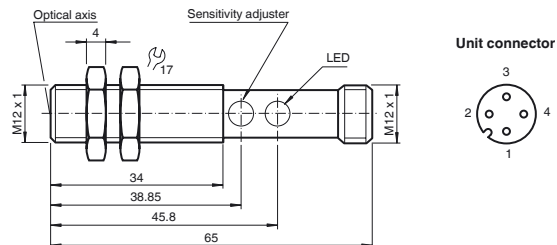
GLV12-54/37/40b/92

Retroreflective sensor with polarization filter
with 4-pin, M12 connector

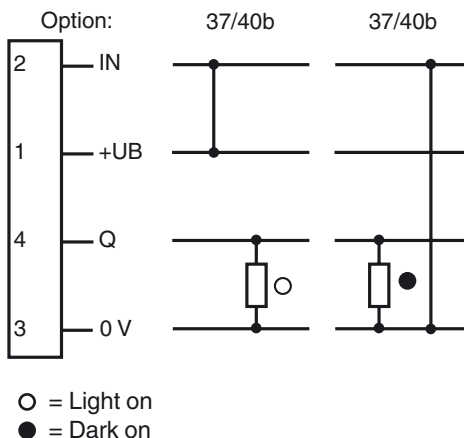
Features

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

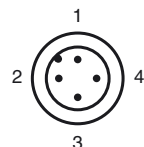
Dimensions



Electrical connection



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 | ≤ 20 mA |
| Time delay before availability | t_v | ≤ 25 ms |

Input

| | |
|---------------|------------------------------|
| Control input | light on +UB 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 | ≤ 3 V |
| Switching frequency | f | ≤ 700 Hz |
| Response time | | ≤ 0.7 ms |

Standard conformity

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

Ambient conditions

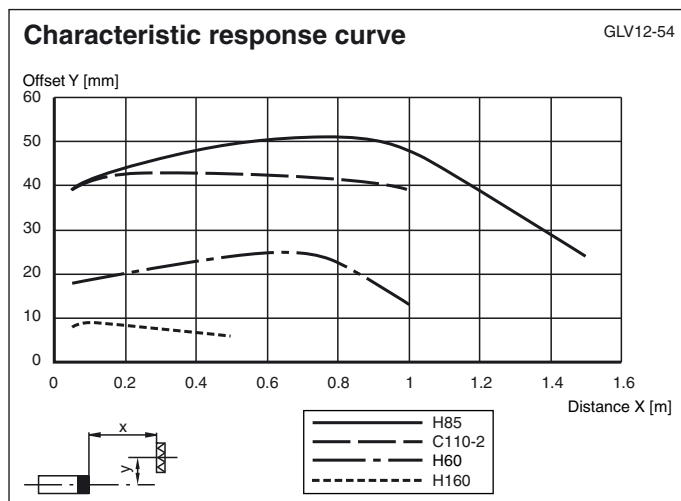
| | |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 55 °C (-13 ... 131 °F) |
| Storage temperature | -40 ... 70 °C (-40 ... 158 °F) |

Mechanical specifications

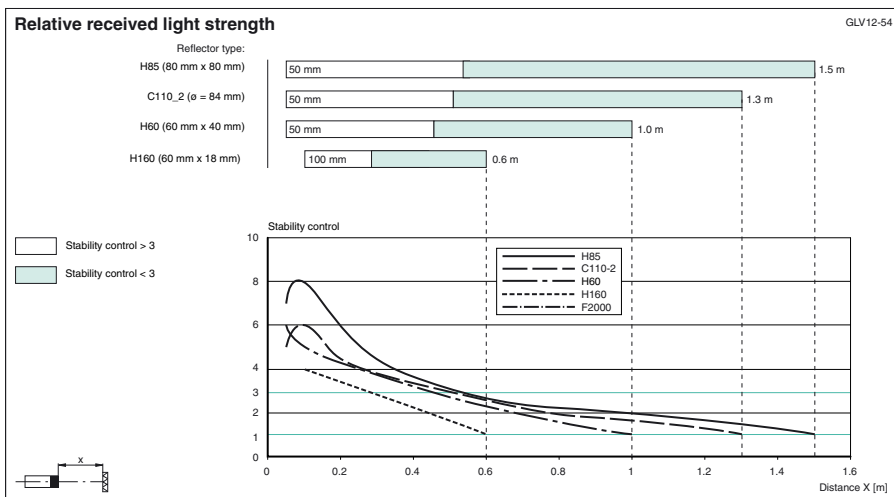
| | |
|-------------------|--------------------------|
| Protection degree | IP67 |
| Connection | connector M12 x 1, 4-pin |
| Material | |
| Housing | brass, nickel-plated |
| Optical face | PMMA |
| Mass | 15 g |

Approvals and certificates

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

Curves/Diagrams

Suitable reflectors and cable sockets can be found in the Internet



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