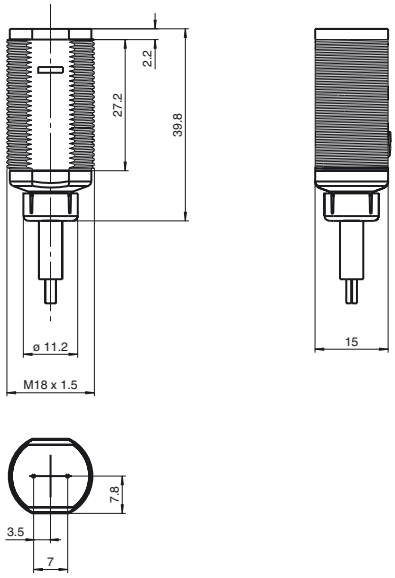




## Dimensions




## Model Number

**GLV18-55/59/102/115**

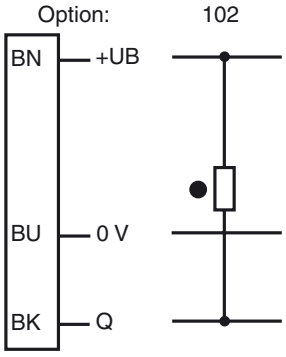
Retro-reflective sensor with polarisation filter

with 2 m fixed cable

## Features

- Short design in M18 plastic housing
- 4 LEDs indicator for 360° all-round visibility
- Optimised potentiometer design for a clear control button layout in the application
- Not sensitive to ambient light, even with switched energy saving lamps

## Electrical connection




○ = Light on
● = Dark on

Suitable reflectors and cable sockets can be found in the Internet

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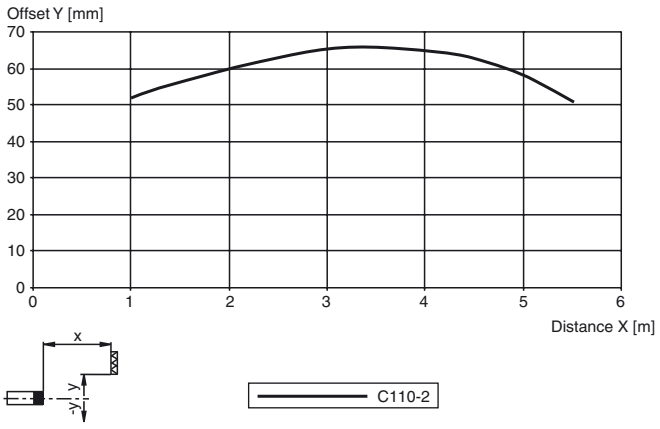
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## Technical data

| | | |
|---|---|---|
| **General specifications** | | |
| Effective detection range | | 0 ... 6.5 m |
| Reflector distance | | 0.05 ... 6.5 m |
| Threshold detection range | | 9 m with reflector H85 |
| Light source | | LED, red 640 nm |
| Approvals | | CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply) |
| Reference target | | H85-2 reflector |
| Light type | | red, modulated light |
| Diameter of the light spot | | approx. 200 mm at 5.5 m |
| Angle of divergence | | approx. 2 ° |
| Optical face | | frontal |
| Ambient light limit | | 30000 Lux |
| Accessories provided | | Mounting aids |
| **Indicators/operating means** | | |
| Operating display | | green LED, statically lit Power on |
| Function display | | LED yellow: lights up, when receiving the light beam ; flashes when falling short of the stability control; OFF when light beam is interrupted |
| **Electrical specifications** | | |
| Operating voltage | | 10 ... 30 V DC |
| Protection class | | II, rated insulation voltage ˜Ü 250 V AC with degree of pollution 1-2 according to IEC 60664-1 |
| No-load supply current | $I_0$ | < 20 mA |
| **Output** | | |
| Switching type | | dark ON |
| Signal output | | 1 npn, short-circuit proof, open collector |
| Switching voltage | | max. 30 V DC |
| Switching current | | max. 100 mA |
| Voltage drop | $U_d$ | ≤ 1.5 V DC |
| Switching frequency | f | 500 Hz |
| Response time | | ≤ 1 ms |
| **Standard conformity** | | |
| Standards | | EN 60947-5-2 |
| **Ambient conditions** | | |
| Ambient temperature | | -25 ... 60 °C (248 ... 333 K) |
| Storage temperature | | -40 ... 70 °C (233 ... 343 K) |
| **Mechanical specifications** | | |
| Protection degree | | IP67 |
| Connection | | fixed cable 2 m |
| Material | | |
| Housing | | PC |
| Optical face | | PMMA |
| Mass | | < 100 g |

### Characteristic response curve

GLV18-55...

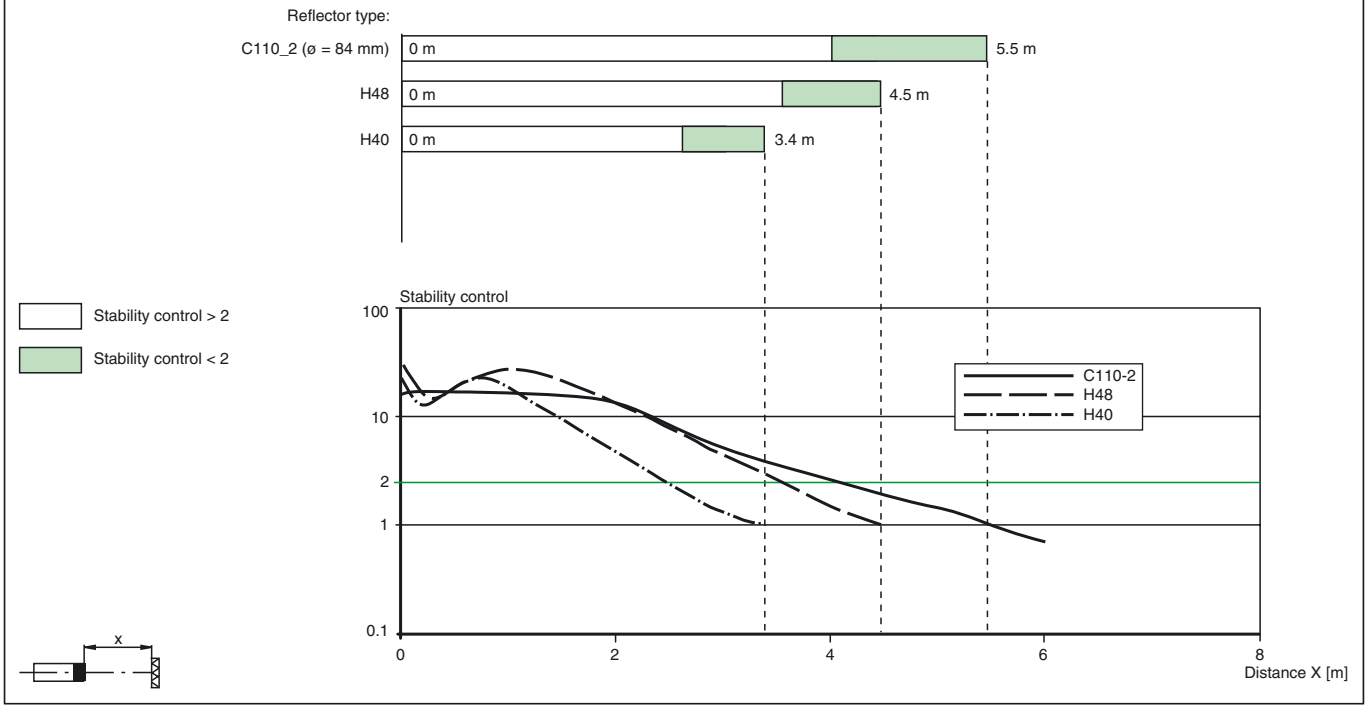



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## Relative received light strength

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