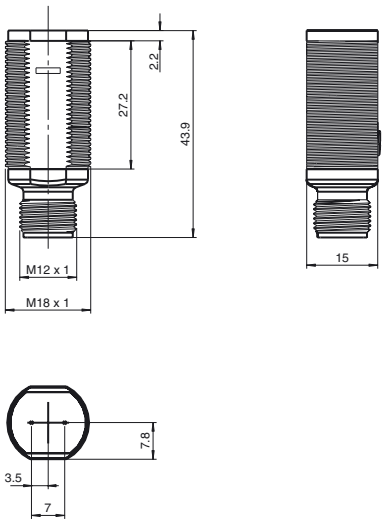




Dimensions



Model Number

GLV18-55/59/102/159

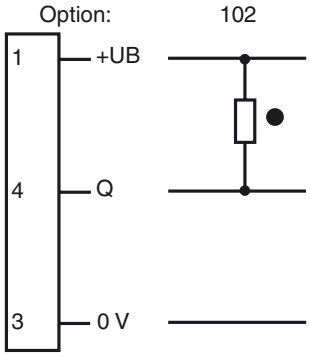
Retro-reflective sensor with polarisation filter

Plastic connector M12 x 1, 3-pin

Features

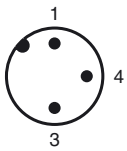
- Short design in M18 plastic housing
- 4 LEDs indicator for 360° all-round visibility
- Optimised potentiometer design for a clear control button layout in the application
- Not sensitive to ambient light, even with switched energy saving lamps

Electrical connection



○ = Light on
● = Dark on

Pinning according



Suitable reflectors and cable sockets can be found in the Internet

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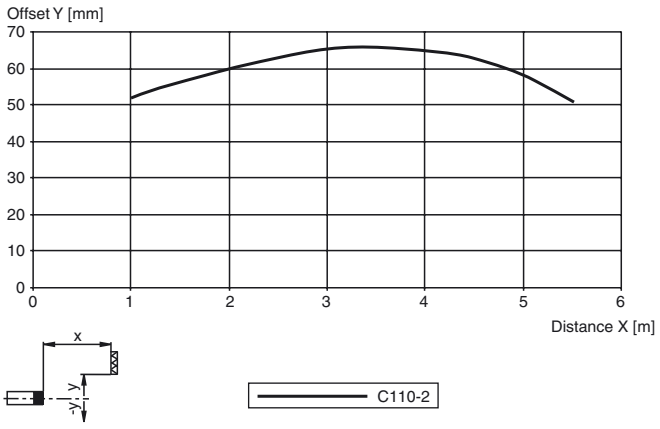
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Technical data

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		Plastic connector M12 x 1 ; 3-pin
Material		
Housing		PC
Optical face		PMMA
Mass		< 10 g

Characteristic response curve

GLV18-55...

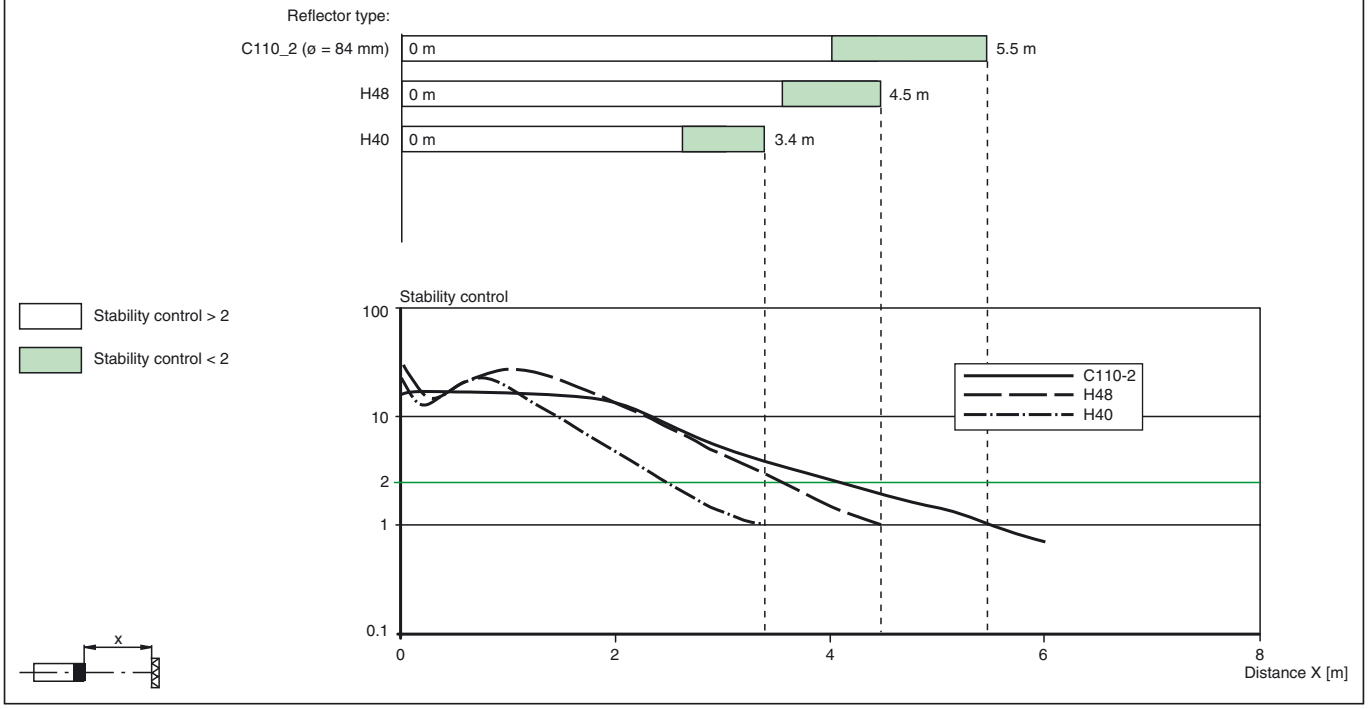


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Relative received light strength

GLV18-55...



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