



Model Number

GLV18-55/59/102/159

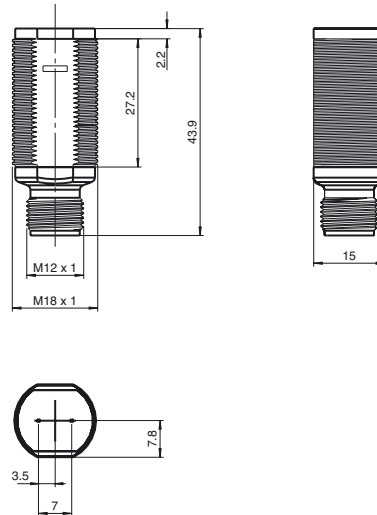
Retro-reflective sensor with polarisation filter

Plastic connector M12 x 1, 3-pin

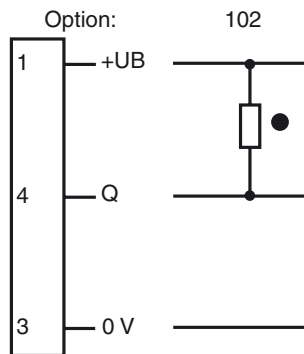
Features

- 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

Dimensions



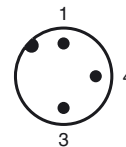
Electrical connection



○ = Light on

● = Dark on

Pinning according



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 \bar{U} 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

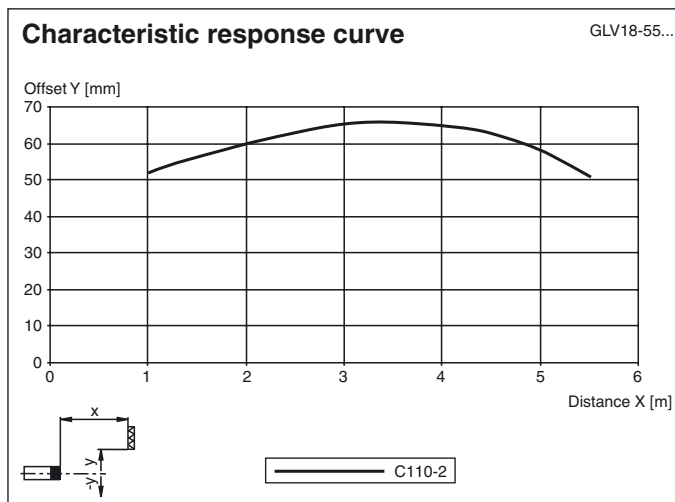
Standards	EN 60947-5-2
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Ambient conditions

Ambient temperature	-25 ... 60 °C (248 ... 333 K)
Storage temperature	-40 ... 70 °C (233 ... 343 K)

Mechanical specifications

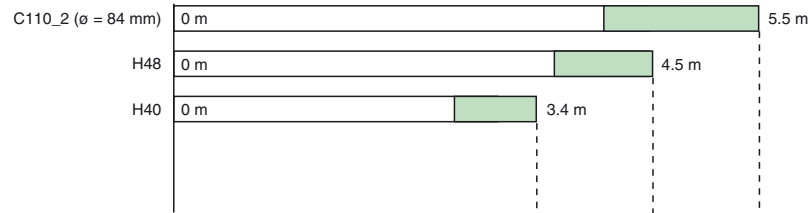
Protection degree	IP67
Connection	Plastic connector M12 x 1 ; 3-pin
Material	
Housing	PC
Optical face	PMMA
Mass	< 10 g



Relative received light strength

GLV18-55...

Reflector type:



Stability control > 2

Stability control < 2

