











# **Model Number**

#### GLV18-55-S/59/102/159

Retroreflective sensor with 3-pin, M12 x 1 plastic connector

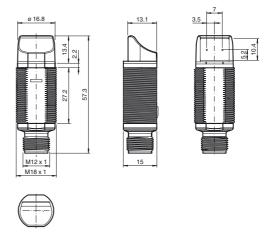
## **Features**

- Efficient Line in a short M18 plastic housing for standard applications
- · Very high detection range
- 4 LEDs indicator for 360° visibility
- Optimized potentiometer design for a clear control button layout in the application
- Sidelookerversion
- DC voltage version

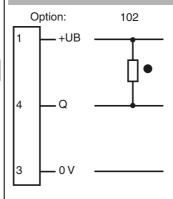
# **Product information**

The GLV/GLK18 series sensors help improve the efficiency of machines and systems. The design of the M18 plastic housing, the connection technology, and sensor properties are highly standardized. Concentrating on the key sensor requirements has produced a robust and reliable product series for DC and AC/DC voltage systems without any overengineering. The mounting set included in the scope of delivery and the optimized potentiometer design ensure fast assembly and easy configuration.

#### **Dimensions**



## **Electrical connection**

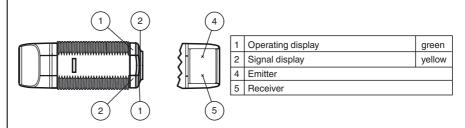


- O = Light on
- = Dark on

# Pinout



## Indicators/operating means



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Technical data		
General specifications		
Effective detection range		0 3.5 m
Reflector distance		0.05 3.5 m
Threshold detection range		4.5 m
Reference target		reflector C110-2
Light source		LED
Light type		modulated visible red light , 640 nm
Diameter of the light spot		approx. 160 mm at 4.5 m
Angle of divergence		approx. 2 °
Optical face		lateral
Ambient light limit		30000 Lux
Functional safety related parar	meters	
MTTF <sub>d</sub>	1101010	920 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		<b>0</b> /0
Operating display		LED green, statically lit Power on
Function display		LED yellow: lights up when receiving the light beam; flashes
i unction display		when falling short of the stability control; OFF when light beam is interrupted
Electrical specifications		
Operating voltage	$U_B$	10 30 V DC
No-load supply current	I <sub>0</sub>	< 20 mA
Output		
Switching type		dark on
Signal output		1 NPN, short-circuit protected open collector
Switching voltage		max. 30 V DC
Switching current		max. 100 mA
Voltage drop	Ud	≤ 1.5 V DC
Switching frequency	f	500 Hz
Response time		≤ 1 ms
Ambient conditions		
Ambient temperature		-25 60 °C (-13 140 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		,
Protection degree		IP67
Connection		Connector M12 x 1, 3-pin
Material		Connector Witz X 1, 6 pm
Housing		PC
Optical face		PMMA
Connector		plastic
Mass		approx. 10 g
Compliance with standards an ves	d directi	**
Standard conformity		
Product standard		EN 60947-5-2:2007
i roddot staridard		IEC 60947-5-2:2007
Approvals and certificates		
Protection class		II, rated insulation voltage $\leq$ 250 V AC with pollution degree 1-2 according to IEC 60664-1
UL approval		cULus Listed, Class 2 Power Source
CCC approval		Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

## **Accessories**

# CPZ18B03

Mounting Bracket with swivel nut

#### **BF 18**

Mounting flange, 18 mm

#### BF 18-F

Mounting flange with dead stop, 18 mm

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

## V11-G-2M-PUR

Cable socket, M12, 3-pin, PUR cable

#### V11-W-2M-PUR

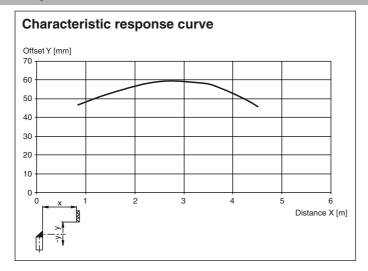
Cable socket, M12, 3-pin, PUR cable

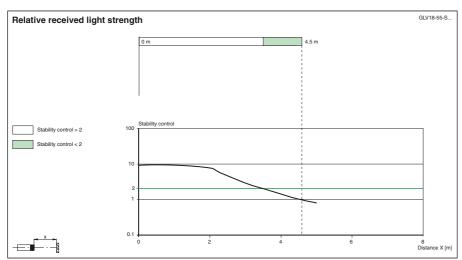
Other suitable accessories can be found at www.pepperl-fuchs.com

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# **Curves/Diagrams**





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