











# **Model Number**

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

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

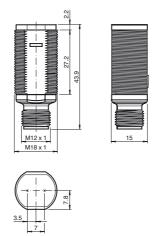
# **Features**

- 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
- · Version with front optical face
- DC voltage version

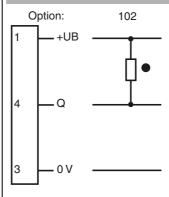
# **Product information**

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**

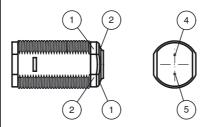


- O = Light on
- = Dark on

# Pinout



# Indicators/operating means



1	Operating display	green
2	Signal display	yellow
4	Emitter	
5	Receiver	

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Technical data				
General specifications				
Effective detection range		0 4 m		
Reflector distance		0.05 4 m		
Threshold detection range		5.5 m		
Reference target		reflector C110-2		
Light source		LED		
Light type		modulated visible red light , 640 nm		
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		
Functional safety related parameters				
MTTF <sub>d</sub>		920 a		
Mission Time (T <sub>M</sub> )		20 a		
Diagnostic Coverage (DC)		0 %		
Indicators/operating means				
Operating display		LED green, 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	$U_{R}$	10 30 V DC		
No-load supply current	I <sub>0</sub>	< 20 mA		
Output	U			
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	U <sub>d</sub>	≤ 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				
Housing		PC		
Optical face		PMMA		
Connector		plastic		
Mass		approx. 10 g		
Compliance with standards and directives				
Standard conformity				
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007		
Approvals and certificates				
Protection class		II, rated insulation voltage ≤ 250 V AC with pollution degree		
i iotootion oldaa		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

#### BF 5-30

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

# **Curves/Diagrams**

