Dimensions



# **Model Number**

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

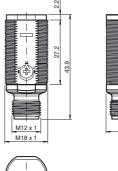
Retroreflective sensor with 3-pin, M12 x 1 plastic connector

#### **Features**

- Efficient Line in a short M18 plastic ٠ housing for standard applications
- Two devices in one: choice of either ٠ clear object detection or retroreflective operating mode with a large detection range
- 4 LEDs indicator for 360° visibility
- Optimized potentiometer design for a ٠ clear control button layout in the application
- DC voltage version

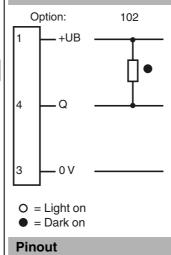
# **Product information**

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.



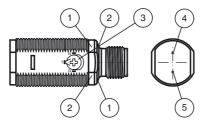


### **Electrical connection**





#### Indicators/operating means



1	Operating display green		
2	Signal display yellow		
3	Potentiometer Teach-In and Mode selection N Normal mode T Teach-In Mode G Glas mode		
4	Emitter		
5	Receiver		

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Technical data		Accessories
General specifications		CPZ18B03
Effective detection range	0 2.5 m in glass mode; 0 5 m in normal mode	Mounting Bracket with swivel nut
Reflector distance	0 2.5 m in glass mode; 0 5 m in normal mode	BF 18
Threshold detection range	6.5 m	Mounting flange, 18 mm
Reference target	reflector C110-2	BF 18-F
Light source	LED	Mounting flange with dead stop, 18 mm
Light type	modulated visible red light , 640 n	n
Diameter of the light spot	approx. 370 mm at 6.5 m ; 50 mm	at 1 m BF 5-30
Angle of divergence	approx. 2 °	Universal mounting bracket for cylindrical
Optical face	frontal	sensors with a diameter of 5 30 mm
Ambient light limit	30000 Lux	
Functional safety related parame	ers	REF-C110-2
MTTF <sub>d</sub>	1260 a	Reflector, round ø 84 mm, central moun-
Mission Time (T <sub>M</sub> )	20 a	ting hole
Diagnostic Coverage (DC)	0 %	
Indicators/operating means	REF-H60	
Operating display	LED green, statically lit Power on,	Reflector, rectangular 40.5 mm x 60 mm,
	blinking with 2 Hz or 4 Hz in Teac	-In mode mounting holes
Function display	is free; flashing if signal is short o light beam is interrupted In glass- beam is free; flashing if further co when light beam is interrupted	function reserve, off when node: Lights up when light Reflector, rectangular 84.5 mm x
Controls	potentiometer for Teach-In and M	de selection REF-H50
Contrast detection levels	18 % - clear glass bottles	Reflector, rectangular 51 mm x 51 mm,
Electrical specifications		mounting holes, fixing strap
Operating voltage	U <sub>B</sub> 10 30 V DC	OBDER
No-load supply current	I <sub>0</sub> < 15 mA	ORR50
Output	dark on	Reflector, rectangular 50.9 mm x 50.9 mm, mounting holes, fixing strap
Switching type		
Signal output	1 NPN, short-circuit protected ope max. 30 V DC	
Switching voltage	max. 100 mA	Cable socket, M12, 3-pin, PUR cable
Switching current		V11-W-2M-PUR
Voltage drop	U <sub>d</sub> ≤ 1.5 V DC f 1 kHz	
Switching frequency	=	Cable socket, M12, 3-pin, PUR cable
Response time	≤ 0.5 ms	Other suitable accessories can be found a
Ambient conditions		www.pepperl-fuchs.com
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 ves	irecti-	
Standard conformity		
Product standard	EN 60947-5-2:2007 IEC 60947-5-2:2007	
Approvals and certificates		
Protection class	II, rated insulation voltage ≤ 250 1-2 according to IEC 60664-1	V AC with pollution degree
UL approval	cULus Listed, Class 2 Power So	rce
CCC approval	Products with a maximum operat	
	bear a CCC marking because the	

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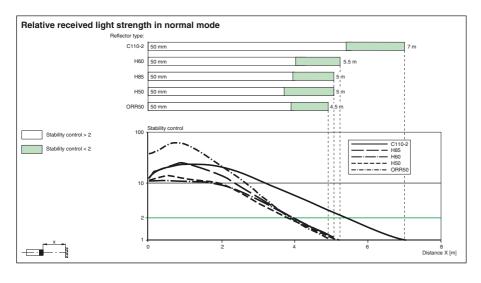
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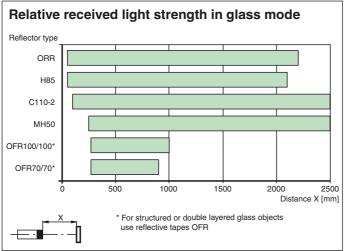
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