Dimensions ø 16.8 \* J 5:2 10:4 M12 x 1 CE **Model Number Electrical connection** GLV18-55-S/25/102/159 Option: 102 Retroreflective sensor +UB with 3-pin, M12 x 1 plastic connector Ο **Features** Efficient Line in a short M18 plastic C 4 housing for standard applications

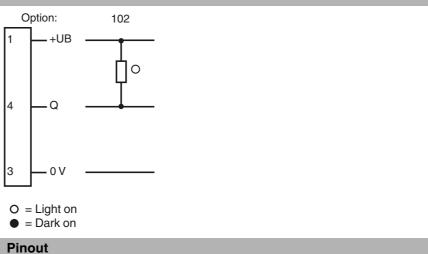
- Very high detection range ٠
- 4 LEDs indicator for 360° visibility ٠
- Optimized potentiometer design for a clear control button layout in the application
- Sidelookerversion

•

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.



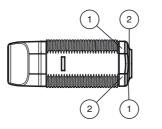
BN BU BK

(brown) (blue)

(black)



## Indicators/operating means



	(4)			
┠─		1	Operating display	green
H		2	Signal display	yellow
		4	Emitter	
		5	Receiver	
	(5)			

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group

www.pepperl-fuchs.com fa-info@us.pepperl-fuchs.com

USA: +1 330 486 0001

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

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<sup>5</sup> PEPPERL+FUCHS 1

Accessories CPZ18B03

**BF 18** 

BF 18-F

BF 5-30

V11-G-2M-PUR

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Mounting Bracket with swivel nut

Plastic mounting adapter, 18 mm

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

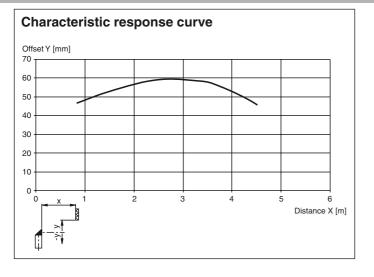
Female cordset, M12, 3-pin, PUR cable Other suitable accessories can be found at

Mounting flange, 18 mm

## **Technical data**

reclinical 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				
Polarization filter		yes				
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 parameters						
MTTF <sub>d</sub>		920 a				
Mission Time (T <sub>M</sub> )		20 a				
Diagnostic Coverage (DC)		0 %				
Indicators/operating means						
Operation indicator		LED green, statically lit Power on				
Function indicator		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	UB	10 30 V DC				
No-load supply current	I <sub>0</sub>	< 20 mA				
Output						
Switching type		light 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				
Conformity						
Product standard		EN 60947-5-2				
Ambient conditions						
Ambient temperature		-25 60 °C (-13 140 °F)				
Storage temperature		-40 70 °C (-40 158 °F)				
Mechanical specifications						
Degree of protection		IP67				
Connection		3-pin, M12 x 1 connector				
Material		- F /				
Housing		PC				
Optical face		PMMA				
Connector		plastic				
Mass		approx. 10 g				
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		CCC approval / marking not required for products rated ${\leq}36~\text{V}$				

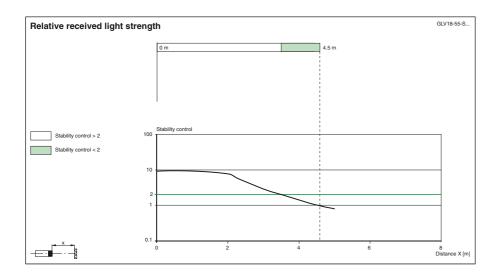
## **Curves/Diagrams**



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Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

76 1111 Singapore ichs.com fa-info@sg.pe EPPPERL+FUCHS



Pepperl+Fuchs Group www.pepperl-fuchs.com

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Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com