Dimensions



CE

Model Number

GLV18-55-G/25/102/159

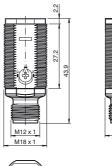
Retroreflective sensor with 3-pin, M12 x 1 plastic connector

Features

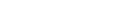
- Efficient Line in a short M18 plastic • housing for standard applications
- Two devices in one: choice of either clear object detection or retroreflective operating mode with a large detection range
- 4 LEDs indicator for 360° visibility ٠
- Optimized potentiometer design for a ٠ clear control button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

Product information

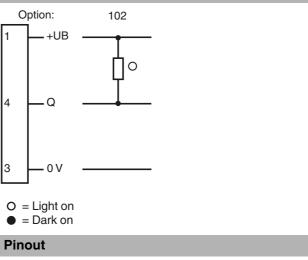
The GLV/GLK18 series sensors help improve the efficiency of machines and systems. The design of the M18 plastic housing, the connection technology, and sensor properties are highly standardized. Concentrating on the key sensor requirements has produced a robust and reliable product series for DC and 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

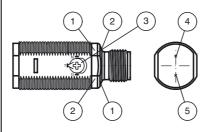




(brown) (blue)

(black)

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				

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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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	Plastic mounting adapter, 18 mm	
Light type		modulated visible red light, 640 nm	r lastic mounting adapter, ro min	
Polarization filter		yes	BF 5-30	
Diameter of the light spot		approx. 370 mm at 6.5 m ; 50 mm at 1 m	Universal mounting bracket for cylindrica	
Angle of divergence		approx. 2 °	sensors with a diameter of 5 30 mm	
Optical face		frontal		
Ambient light limit		30000 Lux	REF-C110-2	
Functional safety related para	ameters		Reflector, round ø 84 mm, central	
MTTF _d		1260 a	mounting hole	
Mission Time (T _M)		20 a		
Diagnostic Coverage (DC)		0 %	REF-H60	
Indicators/operating means			Reflector, rectangular 40.5 mm x 60 mm,	
Operation indicator		LED green, statically lit Power on,	mounting holes	
Function indicator		blinking with 2 Hz or 4 Hz in Teach-In mode LED yellow: In retro-reflective mode: Lights up when light beam	REF-H85	
Function marcator		is free; flashing if signal is short of function reserve, off when light beam is interrupted In glass-mode: Lights up when light beam is free; flashing if further compensation is impossible; off when light beam is interrupted	Reflector, rectangular 84.5 mm x 84.5 mm, mounting holes	
Control elements		potentiometer for Teach-In and Mode selection	REF-H50	
Contrast detection levels		18 % - clear glass bottles	Reflector, rectangular 51 mm x 61 mm, mounting holes, fixing strap	
Electrical specifications			ORB50	
Operating voltage	UB	10 30 V DC		
No-load supply current	I ₀	< 15 mA	Reflector, rectangular 50.9 mm x 50.9	
Output			mm, mounting holes, fixing strap	
Switching type		light on	V11-G-2M-PUR	
Signal output		1 NPN, short-circuit protected open collector	Female cordset, M12, 3-pin, PUR cable	
Switching voltage		max. 30 V DC		
Switching current		max. 100 mA	Other suitable accessories can be found at	
Voltage drop	U _d	≤ 1.5 V DC	www.pepperl-fuchs.com	
Switching frequency	f	1 kHz		
Response time		≤ 0.5 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				
Housing		PC		
Optical face		PMMA		
Connector		plastic		
Mass		approx. 10 g		
Approvals and certificates				
Protection class		II, rated insulation voltage ≤ 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 V	6	

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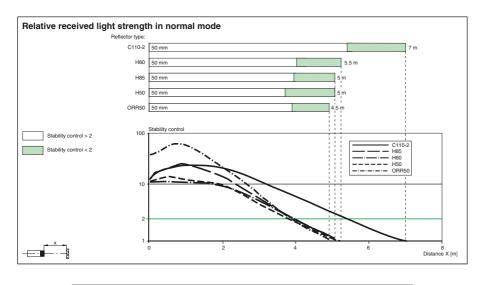
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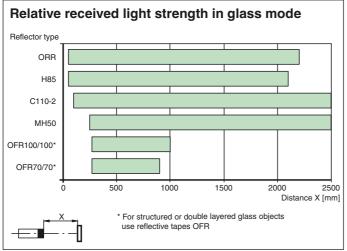
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