

Retroreflective sensor with polarization filter, M18 threaded housing design, plastic housing, front optical face, 4 m detection range, red light, light on, DC version, NPN output, fixed cable



Function

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 over-engineering. The mounting set included in the scope of delivery and the optimized potentiometer design ensure fast assembly and easy configuration.

Application

Packaging industry:

· Presence checks, track loading, completeness checks, stack height control

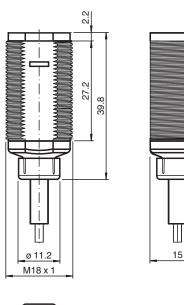
Material handling:

- · Presence checks, target sensor, profile checks, trigger sensor
- Automatic doors, gates and access systems, elevator:
- Secure detection for automatic door and gate systems
- Monitoring function in turnstiles
- · Closing edge monitoring in elevators

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



Dimensions





Technical Data

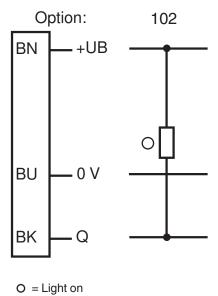
Effective detection range 04 m Reflector distance 0.054 m Threshold detection range 5.5 m Reference target ieflector C110-2 Light source LED Light type modulated visible red light , 640 nm Polarization filter yes Diameter of the light spot approx. 200 nm at 5.5 m Opening angle approx. 2 ° Optical face frontal Ambient light limit 30000 Lux Functional safety related parameters 920 a Mission Time (T _M) 20 a Diagnostic Coverage (DC) 0% Dependin indicator LED green, statically lit Power on Function indicator LED green, statically lit Power on			
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 Polarization filter yes Diameter of the light spot approx. 200 nm at 5.5 m Opening angle approx. 2 ° Optical face frontal Ambient light limit 30000 Lux Functional safety related parameters 20 a MTTFd 920 a Diagnostic Coverage (DC) 0% Operation indicator LED green, statically lit Power on Function indicator LED green, statically lit Power on Function indicators LED green, statically lit Power on Electrical specifications LED yellow: lights up when receiving the light beam ; flashes when falling short of the operating reserve; OFF when light beam is interrupted	General specifications		
Threshold detection range 5.5 m Reference target i eflector C110-2 Light source LED Light type i modulated visible red light , 640 nm Polarization filter yes Diameter of the light spot approx. 200 mm at 5.5 m Opening angle approx. 2 ° Optical face frontal Ambient light limit 30000 Lux Functional safety related parameters 920 a MTTFd 920 a Diagnostic Coverage (DC) 0% Operation indicator LED green, statically lit Power on Function indicator LED green, statically lit power on Function indicator LED green, statically lit power on	Effective detection range		0 4 m
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Light type Image: Constraint of the light type modulated visible red light , 640 nm Polarization filter yes Diameter of the light spot approx. 200 nm at 5.5 m Opening angle approx. 2° Optical face frontal Ambient light limit 30000 Lux Functional safety related parameters g20 a MTTF _d 920 a Diagnostic Coverage (DC) 0% Indicators/operating means LED green, statically lit Power on Purction indicator LED green, statically lit Power on Function indicator LED green, statically lit Power on Function indicator LED yellow: lights up when receiving the light beam ; flashes when falling short of the operating reserve; OFF when light beam is interrupted	Reference target		reflector C110-2
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Ambient light limit 30000 Lux Functional safety related parameters Image: State of the state	Opening angle		approx. 2 °
Functional safety related parameters MTTFd 920 a Mission Time (T _M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means 0 % 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 operating reserve; OFF when light beam is interrupted	Optical face		frontal
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Electrical specifications	Operation indicator		LED green, statically lit Power on
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Operating voltage U _B 10 30 V DC	Electrical specifications		
	Operating voltage	U _B	10 30 V DC

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

GLV18-55/25/102/115

Technical Data		
No-load supply current	I ₀	< 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	U_d	≤ 1.5 V DC
Switching frequency	f	500 Hz
Response time		≤ 1 ms
Conformity		
Product standard		EN 60947-5-2
Approvals and certificates		
Protection class		II, Rated insulation voltage \leq 50 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
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		2 m fixed cable
Material		
Housing		PC
Optical face		РММА
Cable		PVC
Mass		approx. 75 g

Connection Assignment

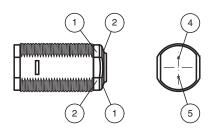


= Dark on

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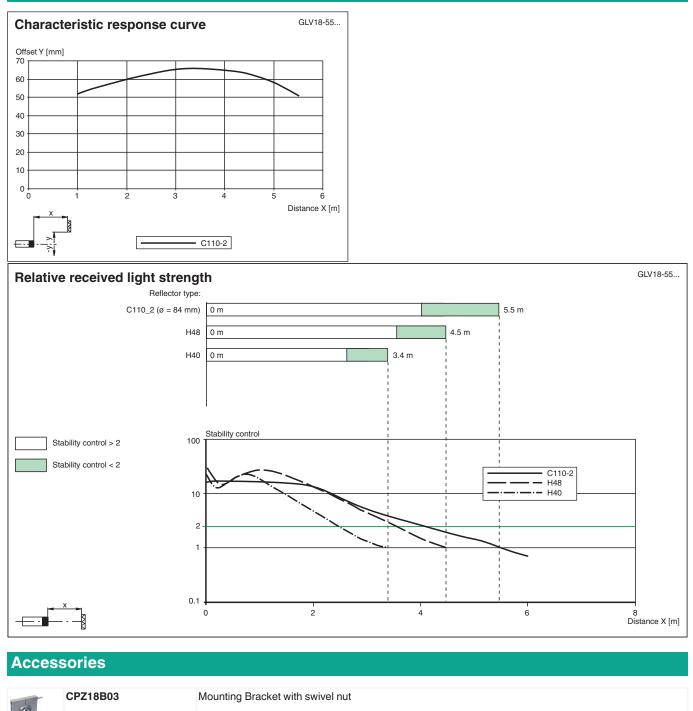
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Assembly



2 Signal display	yellow
4 Emitter	
5 Receiver	

Characteristic Curve



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

Pepperl+Fuchs Group www.pepperl-fuchs.com

BF 18

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Mounting flange, 18 mm

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Accessories					
	BF 18-F	Plastic mounting adapter, 18 mm			
000 000 000	BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 30 mm			

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 Pepperl+Fuchs Group
 USA: +1 330 486 0001
 Get

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

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