

Diffuse mode sensor, M18 threaded housing design, plastic housing, front optical face, 600 mm sensing range, red light, light/dark on, DC version, 2 PNP outputs, M12 plug

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

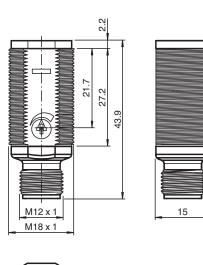
Material handling:

- · 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



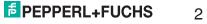


Technical Data

General specifications		
Detection range		50 600 mm adjustable
Detection range max.		0 600 mm
Reference target		100 mm x 100 mm Kodak white
Light source		LED
Light type		modulated infrared light , 850 nm
Diameter of the light spot		approx. 60 mm at 600 mm
Opening angle		approx. 6 °
Optical face		frontal
Ambient light limit		30000 Lux
Hysteresis	Н	< 15 %
Functional safety related parameters		
MTTF _d		920 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green, statically lit Power on
Function indicator		LED yellow: lights when object is detected ; flashes when falling short of the operating reserve
Control elements		sensitivity adjustment
Electrical specifications		
Operating voltage	UB	10 30 V DC
No-load supply current	I ₀	< 20 mA
Output		

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

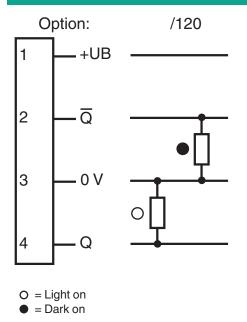
Release date: 2023-03-28 Date of issue: 2023-03-28 Filename: 295496_eng.pdf



GLV18-8-600-IR/73/120

Technical Data			
Quitabien tura		linkt/dault.com	
Switching type		light/dark on	
Signal output		2 PNP, complementary, short-circuit protected, open collectors	
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 ≤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		4-pin, M12 x 1 connector	
Material			
Housing		PC	
Optical face		PMMA	
Connector		plastic	
Mass		approx. 10 g	

Connection



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

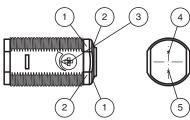
Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

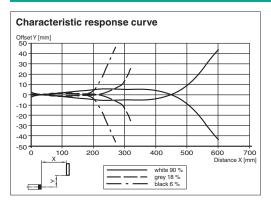
Assembly



L	1
	2
-11	3
	4
T	5
(5)	

Operating display	green
Signal display	yellow
Sensitivity adjustment	
Emitter	
Receiver	

Characteristic Curve



Accessories

0	CPZ18B03	Mounting Bracket with swivel nut
	BF 18	Mounting flange, 18 mm
St.	BF 18-F	Plastic mounting adapter, 18 mm
1000 1000 1000	BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 30 mm
ø /	V1-G-2M-PUR	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey

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



V1-W-2M-PUR

Accessories



Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey

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



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