

Thru-beam sensor, M18 threaded housing design, plastic housing, side optical face, 12 m detection range, red light, dark on, AC/DC version, NPN-FET output, micro 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.

3.5

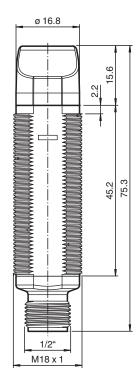
MAMAAAA

3.5

0

2.5

Dimensions







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

Pepperl+Fuchs Group www.pepperl-fuchs.com

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

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

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

⁵ PEPPERL+FUCHS

1

Release date: 2020-12-10 Date of issue: 2020-12-10 Filename: 199786_eng.pdf

Technical Data

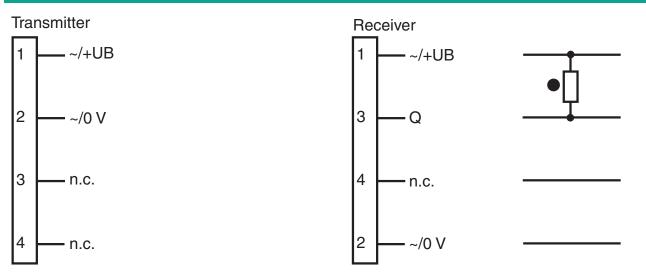
System components		
Emitter		GA18-S/166
Receiver		GK18-S/59/161/166
General specifications		
Effective detection range		0 12 m
Threshold detection range		17.5 m
Light source		LED
Light type		modulated visible red light , 640 nm
Diameter of the light spot		approx. 650 mm at 17.5 m
Angle of divergence		approx. 2 °
Optical face		lateral
Ambient light limit		30000 Lux
Accessories provided		Mounting aids
Indicators/operating means		, and the second s
Operation indicator		LED green, statically lit Power on
Function indicator		Receiver: LED yellow, lights up when light beam is free, flashes when falling short of the stability control ; OFF when light beam is interrupted
Electrical specifications		
Operating voltage	UB	20 250 V AC/DC
No-load supply current	I ₀	< 2.5 mA per device
Output		
Switching type		dark on
Signal output		N-channel MOSFET, short circuit protected
Switching voltage		max. 250 V AC/DC
Switching current		max. 200 mA
Voltage drop	U_d	≤ 3.5 V AC/DC
Switching frequency	f	50 Hz
Response time		≤ 10 ms
Conformity		
Product standard		EN 60947-5-2
Compliance with standards and directives		
Standard conformity		
Standards		UL 508
Approvals and certificates		
EAC conformity		TR CU 020/2011 TR CU 004/2011
Protection class		II, rated insulation voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1
UL approval		cULus Listed, Type 1 enclosure
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		Micro AC connector, 1/2" V124 ; 4-pin
Material		
Housing		ABS / PBT
Optical face		PMMA
Mass		approx. 10 g per device

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

 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

Connection Assignment



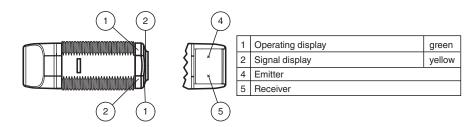
O = Light on

= Dark on

Connection Assignment

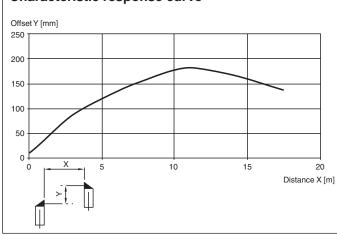


Assembly



Characteristic Curve

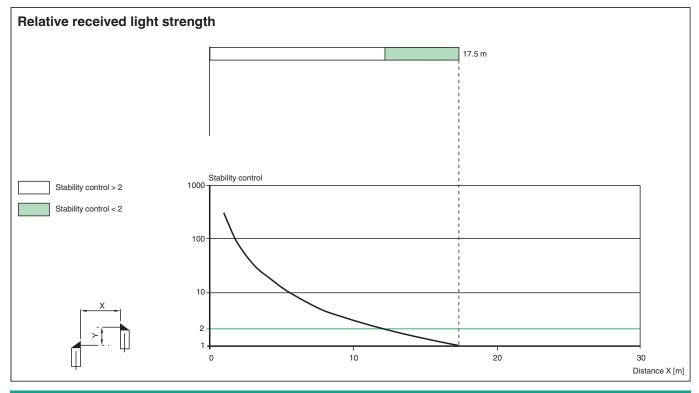
Characteristic response curve



Release date: 2020-12-10 Date of issue: 2020-12-10 Filename: 199786_eng.pdf

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





Application



Accessories			
0	CPZ18B03	Mounting Bracket with swivel nut	
	BF 18	Mounting flange, 18 mm	
St.	BF 18-F	Plastic mounting adapter, 18 mm	
	BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 30 mm	
	V124-G-YE2M-PVC	Connecting cable, 1/2" - 20 UNF, 4-pin, PVC cable	

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

4

Accessories



V124-W-YE2M-PVC Connecting cable, 1/2" - 20 UNF, 4-pin, PVC cable

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



Accessories

Other suitable accessories can be found at www.pepperl-fuchs.com

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

6