Thru-beam sensor



Model Number

GA18/GK18/25/161/166

Thru-beam sensor

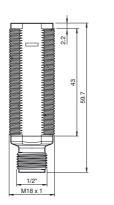
Plastic connector Micro AC 1/2", 4-pin

Features

- Efficient Line in a short M18 plastic housing for standard applications
- Very high detection range
- 4 LEDs indicator for 360° visibility
- Version with front optical face
- Universal usage at different power supplies

Product information

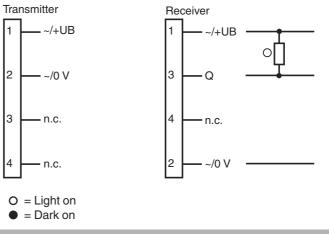
The GLV/GLK18 series sensors help improve the efficiency of machines and systems. The design of the M18 plastic housing, the connection technology, and sensor properties are highly standardized. Concentrating on the key sensor requirements has produced a robust and reliable product series for DC and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







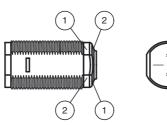
Electrical connection



Pinout



Indicators/operating means



1	Operating display green			
2	Signal display	yello	w	
4	Emitter			
5	Receiver			

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

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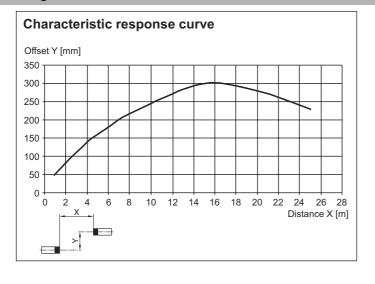


Technical data			Accessories	
System components		CPZ18B03		
Emitter		GA18/166	Mounting Bracket with swivel nut	
Receiver		GK18/25/161/166		
General specifications			BF 18	
Effective detection range		0 20 m	Mounting flange, 18 mm	
Threshold detection range		25 m		
Light source		LED	BF 18-F Mounting flange with dead stop, 18 mm	
Light type		modulated visible red light , 640 nm		
Diameter of the light spot		approx. 1000 mm at 25 m	BF 5-30 Universal mounting bracket for cylindrica sensors with a diameter of 5 30 mm	
Angle of divergence		approx. 3 °		
Optical face		frontal		
Ambient light limit		30000 Lux		
Accessories provided		Mounting aids		
Indicators/operating means	;		V124-G-YE2M-PVC Connecting cable, 1/2" - 20 UNF, 4-pin, PVC cable V124-W-YE2M-PVC	
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	Connecting cable, 1/2" - 20 UNF, 4-pin,	
Electrical specifications			PVC cable	
Operating voltage	U _B	20 250 V AC/DC	1 VC cable	
No-load supply current I ₀		< 2.5 mA per device	Other suitable accessories can be found a	
Output		www.pepperl-fuchs.com		
Switching type		light 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		
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		РММА		
Mass		approx. 10 g per device		
Compliance with standards ves	and direct	j-		
Standard conformity				
Product standard		EN 60947-5-2:2007 ; IEC 60947-5-2:2007		
Standards		UL 508		
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, Type 1 enclosure		
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Certified by China Compulsory Certification (CCC)

Curves/Diagrams

CCC approval

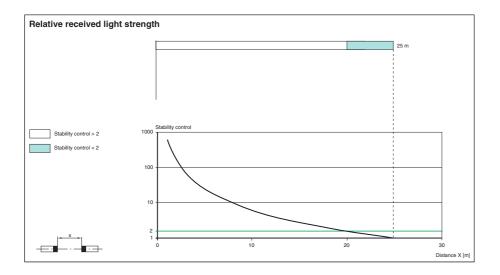


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