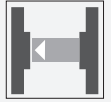




Thru-beam sensor

GA18-S/GK18-S/59/115/161



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

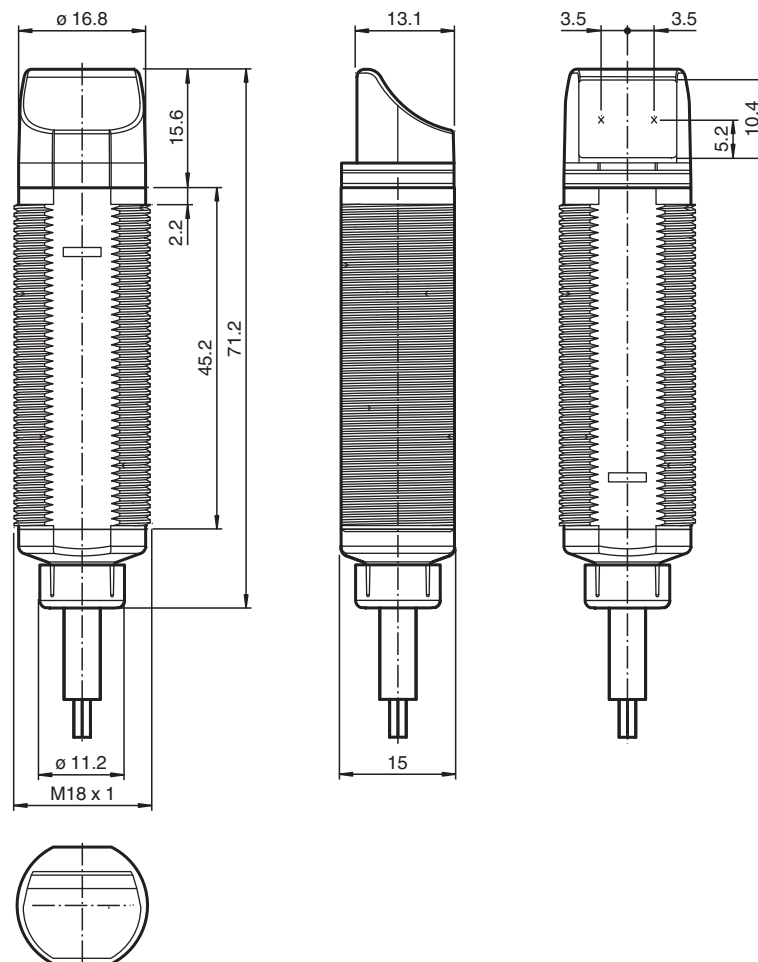
Thru-beam sensor, M18 threaded housing design, plastic housing, side optical face, 12 m detection range, red light, dark on, AC/DC version, NPN-FET output, fixed cable



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.

Dimensions



Release date: 2020-12-10 Date of issue: 2020-12-10 Filename: 199785_eng.pdf

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

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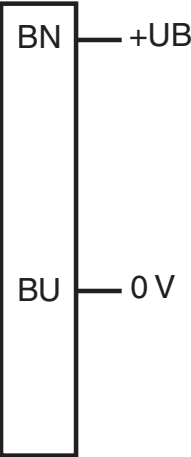
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Technical Data

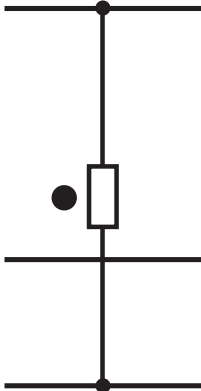
System components			
Emitter		GA18-S/115	
Receiver		GK18-S/59/115/161	
General specifications			
Effective detection range		0 ... 12 m	
Threshold detection range		17.5 m	
Light source		LED	
Light type		modulated visible red light , 640 nm	
Diameter of the light spot		approx. 650 mm at 17.5 m	
Angle of divergence		approx. 2 °	
Optical face		lateral	
Ambient light limit		30000 Lux	
Accessories provided		Mounting aids	
Indicators/operating means			
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		U _B	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 ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1	
UL approval		cULus Listed, Type 1 enclosure For overcurrent protection, install a fuse with a rated current of max. 3 A 250 V AC/DC	
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		2 m fixed cable	
Material			
Housing		ABS / PBT	
Optical face		PMMA	
Mass		approx. 80 g per device	

Connection Assignment

Emitter

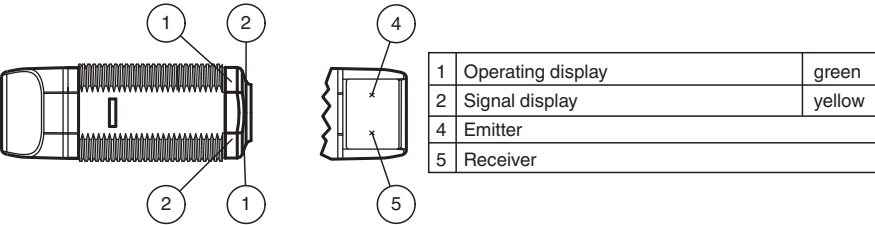


Receiver



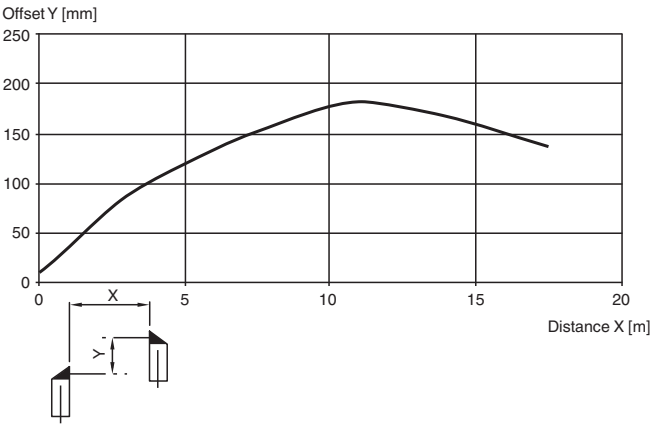
○ = Light on
● = Dark on

Assembly

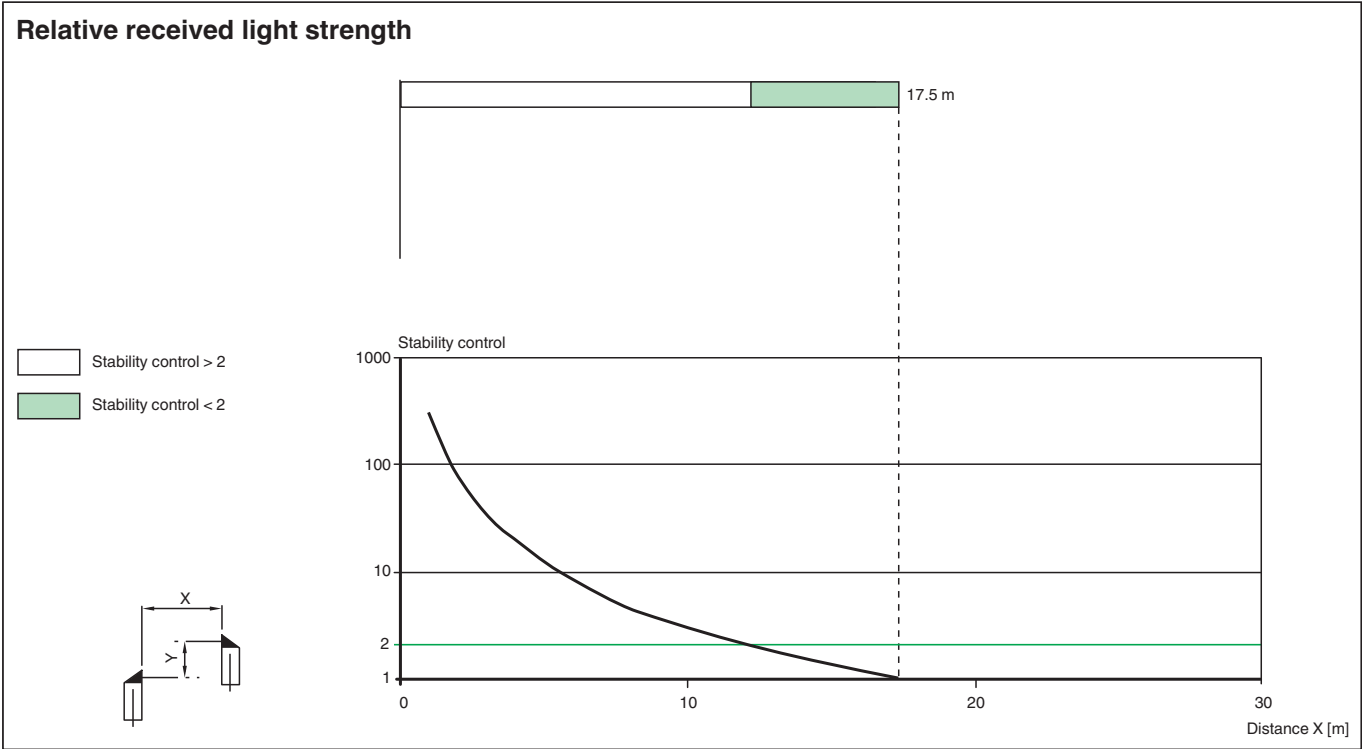


Characteristic Curve

Characteristic response curve



Release date: 2020-12-10 Date of issue: 2020-12-10 Filename: 199785_eng.pdf



Application



Accessories

	CPZ18B03	Mounting Bracket with swivel nut
	BF 18	Mounting flange, 18 mm
	BF 18-F	Plastic mounting adapter, 18 mm
	BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm

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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