Thru-beam sensor



Efficient Line in a short M18 plastic

housing for standard applications

4 LEDs indicator for 360° visibility

The GLV/GLK18 series sensors help improve

the efficiency of machines and systems. The design of the M18 plastic housing, the con-

nection 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

Version with front optical face

Very high detection range

DC voltage version

Product information

configuration.

Model Number GD18/GV18/59/102/115

Thru-beam sensor with 2 m fixed cable

Features

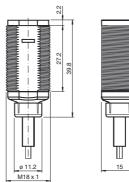
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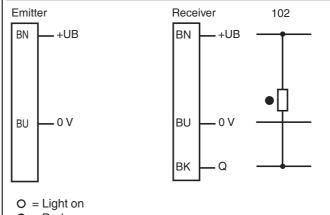
Dimensions



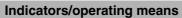


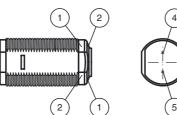


Electrical connection









1	Operating display	green
2	Signal display	yellow
4	Emitter	
5	Receiver	

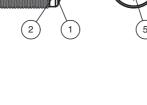
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Accessories

Mounting Bracket with swivel nut

Mounting flange with dead stop, 18 mm

Universal mounting bracket for cylindrical

Other suitable accessories can be found at

sensors with a diameter of 5 ... 30 mm

Mounting flange, 18 mm

www.pepperl-fuchs.com

CPZ18B03

BF 18

BF 18-F

BF 5-30

Thiu-beam sensor					
Technical data					
System components					
Emitter		GD18/115			
Receiver		GV18/59/102/115			
General specifications					
Effective detection range		0 20 m			
Threshold detection range		25 m			
Light source		LED			
Light type		modulated visible red light, 640 nm			
Diameter of the light spot		approx. 1300 mm at 25 m			
Angle of divergence		approx. 3 °			
Optical face		frontal			
Ambient light limit		30000 Lux			
Functional safety related parameters					
MTTF _d		630 a			
Mission Time (T _M)		20 a			
Diagnostic Coverage (DC)		0 %			
Indicators/operating means					
Operating display		LED green, statically lit Power on			
Function display		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	10 30 V DC			
No-load supply current	I ₀	< 20 mA			
Output					
Switching type		dark 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			
Ambient conditions					
Ambient temperature		-25 60 °C (-13 140 °F)			
Storage temperature		-40 70 °C (-40 158 °F)			
Mechanical specifications					
Protection degree					
Connection		2 m fixed cable			
Material					
Housing Optical face		PC PMMA			
Mass		approx. 75 g per device			
	liveeti				
Compliance with standards and directi- ves					
Standard conformity					
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007			
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 CCC approval

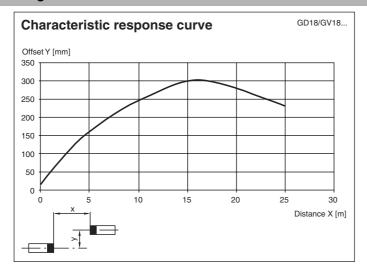
cULus Listed, Class 2 Power Source, Type 1 enclosure Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

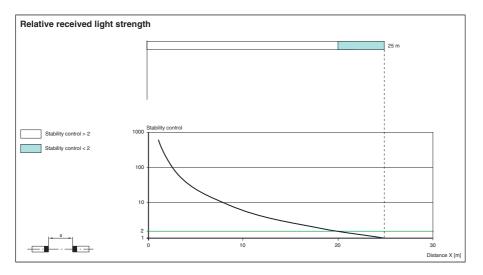
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Curves/Diagrams





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