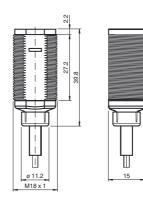
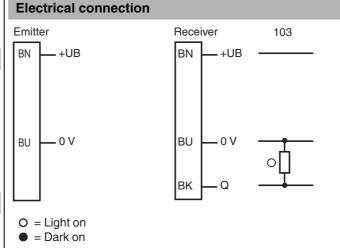
Thru-beam sensor



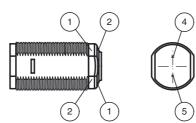
Dimensions







Indicators/operating means



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

Model Number

GD18/GV18/25/103/115

Thru-beam sensor with 2 m fixed cable

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
- DC voltage version

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.

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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

Inru-beam sensor					
Tashulash data					
Technical data					
System components					
Emitter		GD18/115			
Receiver		GV18/25/103/115			
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	U _B	10 30 V DC			
No-load supply current	I ₀	< 20 mA			
Output					
Switching type		light on			
Signal output		1 PNP, short-circuit protected, open collector			
Switching voltage		max. 30 V DC			
Switching current		max. 100 mA			
Voltage drop	Ud	≤ 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		IP67			
Connection		2 m fixed cable			
Material					
Housing		PC			
Optical face		PMMA			
Mass		approx. 75 g per device			
Compliance with standards and oves	directi-				
Standard conformity		EN 60047 5 0:0007			
Product standard Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007 UL 508			
Standards					
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

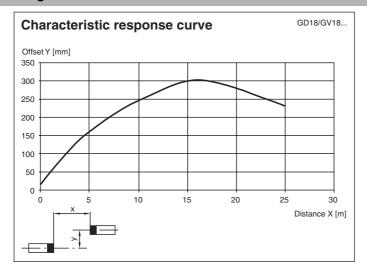
1-2 according to IEC 60664-1 cULus Listed, Class 2 Power Source, Type 1 enclosure

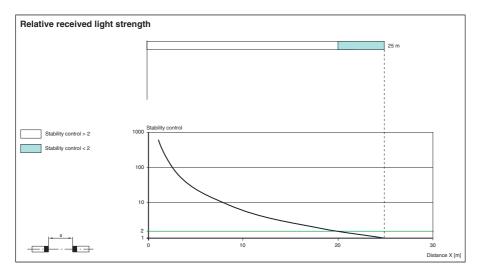
Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

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Curves/Diagrams





Release date: 2013-01-14 15:22 Date of issue: 2013-02-04 237008_eng.xml

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