

C E cUus

Model Number

GD18/GV18/59/102/115

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

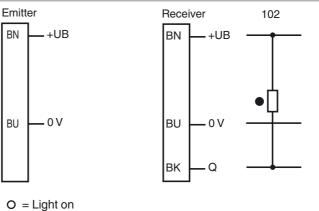
Product information

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.



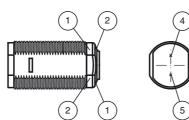
Electrical connection

Dimensions



- O = Light on $\bullet = Dark on$
- Dark off

Indicators/operating means



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

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

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

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Accessories

Mounting Bracket with swivel nut

Plastic mounting adapter, 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

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CPZ18B03

BF 18

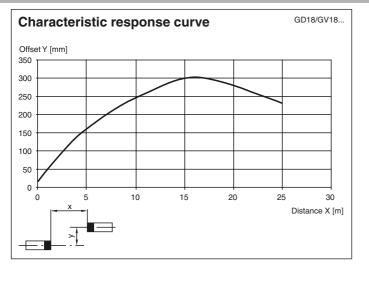
BF 18-F

BF 5-30

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 para	meters	
MTTF _d		630 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0%
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		10 20.1/ DC
Operating voltage	UB	10 30 V DC < 20 mA
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
Conformity		
Product standard		EN 60947-5-2
Ambient conditions		
Ambient temperature		-25 60 °C (-13 140 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		2 m fixed cable
Material		
Housing		PC
Optical face		PMMA
Mass		approx. 75 g per device
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, Class 2 Power Source, Type 1 enclosure
CCC approval		CCC approval / marking not required for products rated ≤36 V

Curves/Diagrams

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

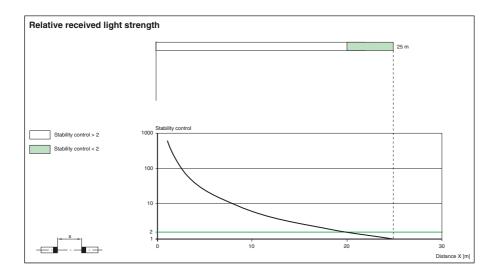
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