GD18-S/GV18-S/115/120

5.2



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Model Number

Thru-beam sensor

with 2 m fixed cable

Features

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GD18-S/GV18-S/115/120

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 over-

engineering. The mounting set included in the scope of delivery and the optimized potentio-

meter design ensure fast assembly and easy

Very high detection range

Sidelookerversion

DC voltage version

Product information

configuration.

ø 16.8 13.1 24 53.2 ø 11.2

Electrical connection

Dimensions





= Dark on

Indicators/operating means



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fa-info@us.pepperl-fuchs.com

USA: +1 330 486 0001

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

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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

www.pepperl-fuchs.com

CPZ18B03

BF 18

BF 18-F

BF 5-30

Technical data		
System components		
Emitter		GD18-S/115
Receiver		GV18-S/115/120
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
Functional safety related param	eters	
MTTFd		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		
Operating voltage	UB	10 30 V DC
No-load supply current	I ₀	< 20 mA
Output	0	
Switching type		light/dark on
Signal output		2 PNP, complementary, short-circuit protected, open collectors
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
LIL approval		alling Listed Class 2 Power Source, Type 1 appleaure

Curves/Diagrams

UL approval

CCC approval



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cULus Listed, Class 2 Power Source, Type 1 enclosure

CCC approval / marking not required for products rated ≤36 V

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

EPPERL+FUCHS



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