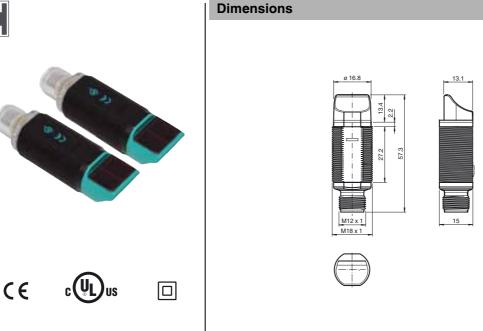
10.4



Model Number

GD18-S/GV18-S/59/102/159

Thru-beam sensor

with 3-pin, M12 x 1 plastic connector

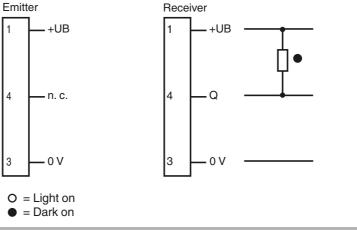
Features

- Efficient Line in a short M18 plastic • housing for standard applications
- Very high detection range ٠
- 4 LEDs indicator for 360° visibility •
- Sidelookerversion
- DC voltage version ٠

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



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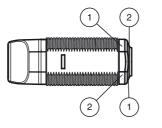
Pinout



Wire colors in accordance with EN 60947-5-2 BN BU BK (brown) (blue) (black)

(4)

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"

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

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com ⁵ PEPPERL+FUCHS 1 **Technical data**

System components

General specifications Effective detection range

Threshold detection range

Diameter of the light spot

Emitter

Receiver

Light source

Light type

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

V11-G-2M-PUR

Female cordset, M12, 3-pin, PUR cable

Other suitable accessories can be found at www.pepperl-fuchs.com

Angle of divergence		approx. 2 °				
Optical face		lateral				
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						
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						
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	\leq 1.5 V DC				
Switching frequency	f	500 Hz				
Response time		\leq 1 ms				
Conformity						
Product standard		EN 60947-5-2				
Ambient conditions						

•	
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	3-pin, M12 x 1 connector
Material	
Housing	PC
Optical face	PMMA
Connector	plastic
Mass	approx. 10 g per device
A second second second PP second second	

GD18-S/159

0 12 m

17.5 m

LED

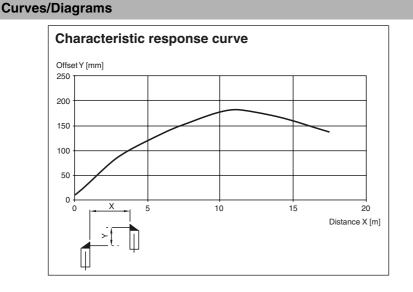
GV18-S/59/102/159

modulated visible red light , 640 nm

approx. 650 mm at 17.5 m

Approvals and certificates Protection class

UL approval CCC approval



2 according to IEC 60664-1

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II, rated insulation voltage ≤ 250 V AC with pollution degree 1-

CCC approval / marking not required for products rated \leq 36 V

cULus Listed, Class 2 Power Source, Type 1 enclosure

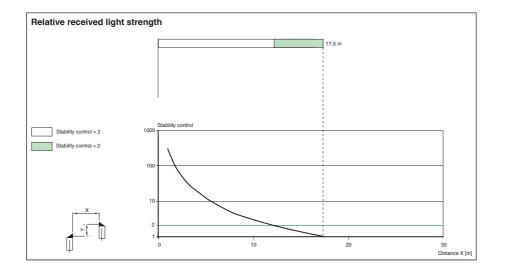
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⁵ PEPPERL+FUCHS

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