









# **Model Number**

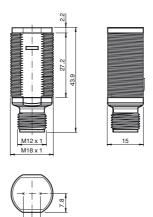
## GD18/GV18/73/120

Thru-beam sensor with 4-pin, M12 x 1 plastic connector

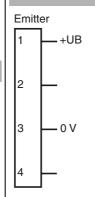
## **Features**

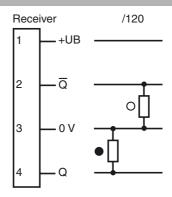
- Short design in M18 plastic housing
- 4 LEDs indicator for 360° visibility
- Optimal price/power ratio

# **Dimensions**



# **Electrical connection**





- O = Light on
- = Dark on

## **Pinout**



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Technical data		
System components		CD19/150
Emitter Receiver		GD18/159 CV48/70/400
		GV18/73/120
General specifications		0 00
Effective detection range		0 20 m
Threshold detection range		25 m
Light source		LED modulated visible red light 640 pm
Light type Diameter of the light spot		modulated visible red light , 640 nm approx. 1300 mm at 25 m
Angle of divergence		approx. 1500 min at 25 m
Optical face		frontal
Ambient light limit		30000 Lux
Functional safety related para	motore	30000 Edx
MTTF <sub>d</sub>	iiiietei S	630 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0%
		<b>V</b> /0
Indicators/operating means		LED green, statically lit Power on
Operating display Function display		Receiver: LED yellow, lights up when light beam is free, flashes
Function display		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 <sub>0</sub>	< 20 mA
Output		
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
Ambient conditions		
Ambient temperature		-25 60 °C (-13 140 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Protection degree		IP67
Connection		connector M12 x 1, 4-pin
Material		
Housing		PC
Optical face		PMMA
Mass		approx. 10 g per device
Compliance with standards a ves	nd directi	-
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		cULus Listed, Class 2 Power Source, Type 1 enclosure
CCC approval		Products with a maximum operating voltage of $\leq$ 36 V do not bear a CCC marking because they do not require approval.

## **Accessories**

# CPZ18B03

For Series CP18 Threaded Photoelectric Sensors

# BF 18

Mounting flange, 18 mm

## BF 18-F

Mounting flange with dead stop, 18 mm

#### BF 5-30

Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm

## V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

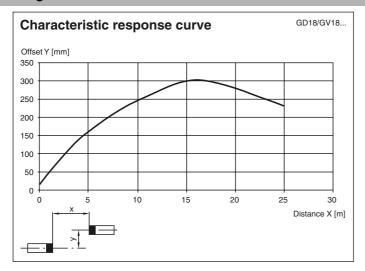
#### V1-W-2M-PUR

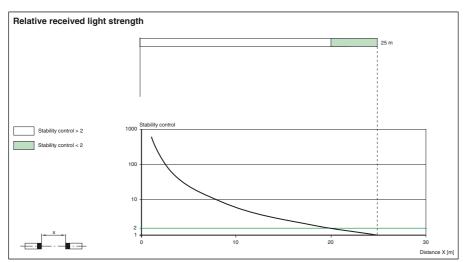
Cable socket, M12, 4-pin, PUR cable

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

**EPPERL+FUCHS** 

# **Curves/Diagrams**





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