









(W)

Model Number

GA18/GK18/25/161/166

Thru-beam sensor Plastic connector Micro AC 1/2", 4-pin

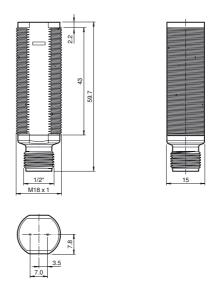
Features

- 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
- Universal usage at different power supplies

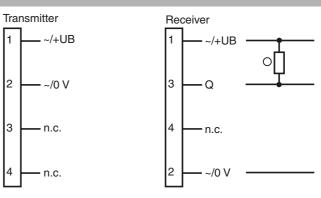
Product information

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.

Dimensions



Electrical connection



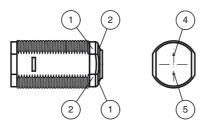
O = Light on

= Dark on

Pinout



Indicators/operating means



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

Technical data		
System components		
Emitter		GA18/166
Receiver		GK18/25/161/166
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. 1000 mm at 25 m
Angle of divergence		approx. 3 °
Optical face		frontal
Ambient light limit		30000 Lux
Accessories provided		Mounting aids
Indicators/operating means		150
Operation indicator		LED green, statically lit Power on
Function indicator		Receiver: LED yellow, lights up when light beam is free, flashe when falling short of the stability control; OFF when light beam is interrupted
Electrical specifications		
Operating voltage	U_{B}	20 250 V AC/DC
No-load supply current	I ₀	< 2.5 mA per device
Output		
Switching type		light on
Signal output		N-channel MOSFET, short circuit protected
Switching voltage		max. 250 V AC/DC
Switching current		max. 200 mA
Voltage drop	U_d	≤ 3.5 V AC/DC
Switching frequency	f	50 Hz
Response time		≤ 10 ms
Conformity		
Product standard		EN 60947-5-2
Ambient conditions		
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		Micro AC connector, 1/2" V124 ; 4-pin
Material		
Housing		ABS / PBT
Optical face		PMMA
Mass		approx. 10 g per device
Compliance with standards and directives		
Standard conformity		
Standards		UL 508
Approvals and certificates		
Approvate and certificates		

TR CU 020/2011

TR CU 004/2011

cULus Listed, Type 1 enclosure

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

V124-G-YE2M-PVC

Connecting cable, 1/2" - 20 UNF, 4-pin, PVC cable

V124-W-YE2M-PVC

Connecting cable, 1/2" - 20 UNF, 4-pin, PVC cable

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

EAC conformity

Protection class
UL approval

CCC approval

II, rated insulation voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1

Certified by China Compulsory Certification (CCC)

Curves/Diagrams

