









# **Model Number**

# GA18/GK18/59/161/166

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

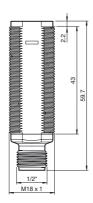
# **Features**

- 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**

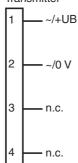


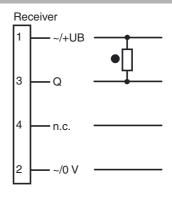




# **Electrical connection**

Transmitter



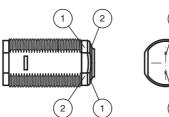


- O = Light on
- = Dark on

# Pinout



# Indicators/operating means



$\mathcal{C}$			
	1	Operating display	gree
	2	Signal display	yello
	4	Emitter	
	5	Receiver	
(5)			

### **Technical data** System components Emitter GA18/166 GK18/59/161/166 Receiver General specifications Effective detection range 0 20 m Threshold detection range 25 m Light source LED modulated visible red light, 640 nm Light type Diameter of the light spot approx. 1000 mm at 25 m Angle of divergence approx. 3 Optical face frontal 30000 Lux Ambient light limit Accessories provided Mounting aids 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 20 ... 250 V AC/DC $U_{R}$ No-load supply current $I_0$ < 2.5 mA per device Output Switching type dark on Signal output N-channel MOSFET, short circuit protected

max 250 V AC/DC

-20 ... 60 °C (-4 ... 140 °F)

-40 ... 70 °C (-40 ... 158 °F)

Micro AC connector, 1/2" V124; 4-pin

max. 200 mA < 3.5 V AC/DC

50 Hz

IP67

≤ 10 ms

# Switching voltage Voltage drop

Switching current Switching frequency Response time

**Ambient conditions** Ambient temperature

Storage temperature **Mechanical specifications** 

Degree of protection Connection Material

ABS / PBT Housing Optical face **PMMA** 

Mass approx. 10 g per device

 $U_d$ 

Compliance with standards and directi-

Standard conformity

EN 60947-5-2:2007; IEC 60947-5-2:2007 Product standard

Standards UL 508

Approvals and certificates

Protection class

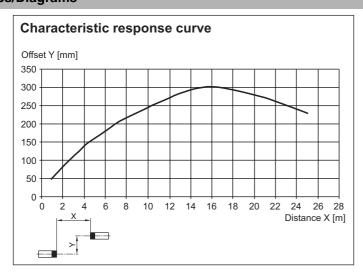
II, rated insulation voltage  $\leq$  250 V AC with pollution degree 1-

2 according to IEC 60664-1 cULus Listed, Type 1 enclosure

Certified by China Compulsory Certification (CCC) CCC approval

# **Curves/Diagrams**

**UL** approval



# Accessories

## CPZ18B03

Mounting Bracket with swivel nut

## **BF 18**

Mounting flange, 18 mm

## **BF 18-F**

Mounting flange with dead stop, 18 mm

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

