









# **Model Number**

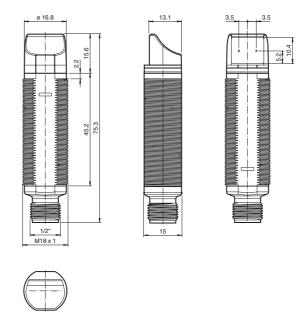
## GA18-S/GK18-S/59/161/166

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

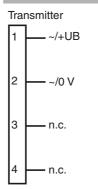
## **Features**

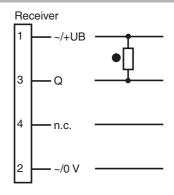
- Short design in M18 plastic housing
- · Optical face lateral
- 4 LEDs indicator for 360° visibility
- Optimal price/power ratio
- AC/DC wide range supply

## **Dimensions**



## **Electrical connection**





- O = Light on
- = Dark on

## **Pinout**



## **Technical data**

#### System components

Emitter GA18-S/166 GK18-S/59/161/166 Receiver

### **General specifications**

Effective detection range 0 12 m Threshold detection range 17.5 m Light source LED

modulated visible red light, 640 nm Light type

Diameter of the light spot approx. 650 mm at 17.5 m

Angle of divergence approx. 2 Optical face lateral 30000 Lux Ambient light limit Accessories provided Mounting aids

### Indicators/operating means

Operating display LED green, statically lit Power on

Function display 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

### Output

Switching type dark on

Signal output N-channel MOSFET, short circuit protected

max 250 V AC/DC Switching voltage Switching current max. 200 mA < 3.5 V AC/DC Voltage drop  $U_{d}$ Switching frequency 50 Hz Response time ≤ 10 ms

#### **Ambient conditions**

Ambient temperature -20 ... 60 °C (-4 ... 140 °F) Storage temperature -40 ... 75 °C (-40 ... 167 °F)

## Mechanical specifications

Protection degree IP67

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

Material PC-PBT Housing Optical face **PMMA** Mass approx. 20 g

Compliance with standards and directi-

Standard conformity

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

Standards **UL 508** 

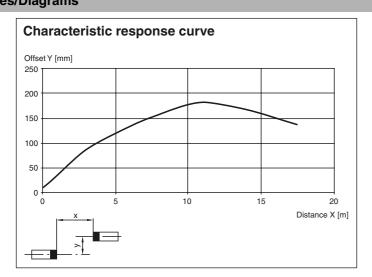
## Approvals and certificates

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 **UL** approval

# **Curves/Diagrams**



## **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

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