Dimensions

Model Number

GLK18-55-S/59/115/161

Retroreflective sensor

With 2 m fixed cable

Features

- Efficient Line in a short M18 plastic housing for standard applications
- Very high detection range
- 4 LEDs indicator for 360° visibility
- Sidelookerversion
- Universell 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 over-engineering. The mounting set included in the scope of delivery and the optimized potentiometer design ensure fast assembly and easy configuration.
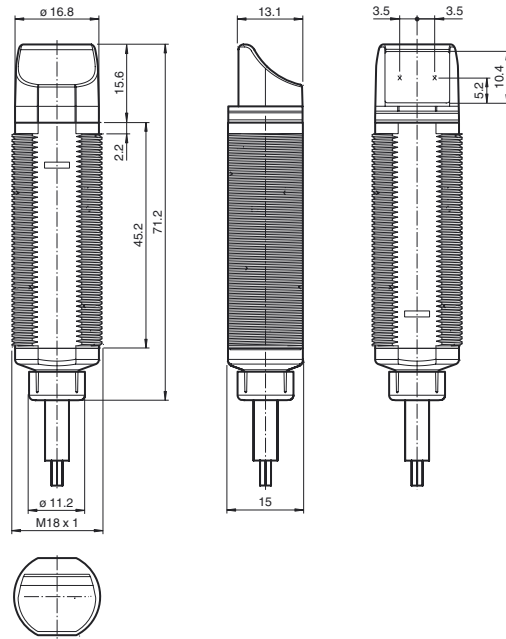
Electrical connection
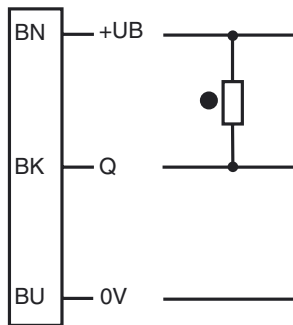
○ = Light on
● = Dark on

Indicators/operating means
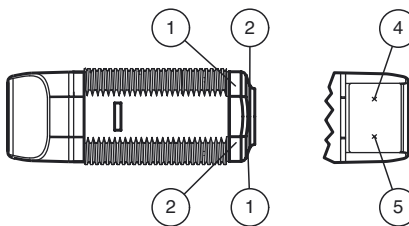
1	Operating display	green
2	Signal display	yellow
4	Emitter	
5	Receiver	

Subject to modifications without notice

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Technical data

General specifications

Effective detection range	0 ... 3.5 m
Reflector distance	0.05 ... 3.5 m
Threshold detection range	4.5 m
Reference target	reflector C110-2
Light source	LED
Light type	modulated visible red light , 640 nm
Diameter of the light spot	approx. 160 mm at 4.5 m
Angle of divergence	approx. 2 °
Optical face	lateral
Ambient light limit	30000 Lux
Accessories provided	Mounting aids

Indicators/operating means

Operating display	LED green, statically lit Power on
Function display	LED yellow: lights up when receiving the light beam ; flashes 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

Output

Switching type		dark 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

Ambient conditions

|	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)

Mechanical specifications

Protection degree	IP67
Connection	2 m, 3 x 0.34 mm^2, PVC cable
Material	
Housing	PC-PBT
Optical face	PMMA
Mass	approx. 100 g

Compliance with standards and directives

Standard conformity	
Product standard	EN 60947-5-2:2007 ; IEC 60947-5-2:2007
Standards	UL 508

Approvals and certificates

Protection class	II, rated insulation voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1
UL approval	cULus Listed, Type 1 enclosure
CCC approval	Certified by China Compulsory Certification (CCC)

Curves/Diagrams

Characteristic response curve
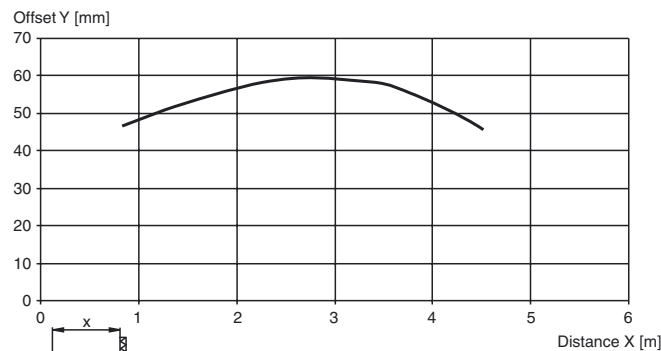
Accessories

CPZ18B03
Mounting Bracket with swivel nut

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

Relative received light strength

C110-2 0 mm   4.5 m

Stability control > 2

Stability control < 2

Stability control

100

10

2

1

0.1

0   1   2   3   4   5

Distance X [m]

X

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