

#### Dimensions





#### **Model Number**

### GLV18-55-S/59/102/115

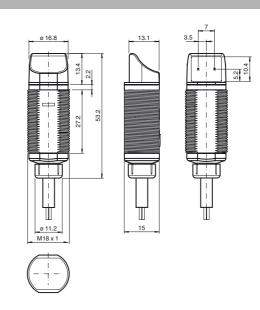
Retroreflective sensor with 2 m fixed cable

#### **Features**

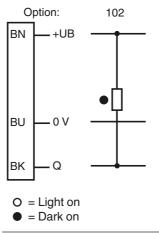
- Efficient Line in a short M18 plastic ٠ housing for standard applications
- Very high detection range ٠
- 4 LEDs indicator for 360° visibility ٠
- Optimized potentiometer design for a ٠ clear control button layout in the application
- Sidelookerversion
- DC voltage version ٠

### **Product information**

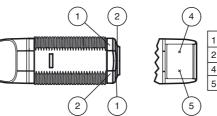
The GLV/GLK18 series sensors help improve the efficiency of machines and systems. The design of the M18 plastic housing, the connection technology, and sensor properties are highly standardized. Concentrating on the key sensor requirements has produced a robust and reliable product series for DC and 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.



## **Electrical connection**



### Indicators/operating means



4)			
	1	Operating display	green
	2	Signal display	yellow
	4	Emitter	
	5	Receiver	
5			

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General specificationsEffective detection range0 3.5 mReflector distance0.05 3.5 mThreshold detection range4.5 mReference targetreflector C110-2Light sourceLEDLight typemodulated visible red light, 640 nmDiameter of the light spotapprox. 160 nm at 4.5 mAngle of divergenceapprox. 160 nm at 4.5 mAngle of divergenceapprox. 2°Optical facelateralAmbient light limit30000 LuxFunctional safety related parametersMTTFd920 aMission Time (Tyk)20 aDiagnostic Coverage (DC)0 %Indicators/operating meansOperating displayLED green, statically lit Power onFunction displayLED green, statically lit Power onFunction displayUBVoltage dropUBOperating voltageVBOperating voltageVBOutput1 N.N short-circuit protected open collectorSwitching typedark onSwitching uptagemax. 30 V DCSwitching requencyfSoutchins<1.5 V DCAmbient conditions<1.5 V DCAmbient conditions<1.5 V DCProtection degreeIP67Connection2 m fixed cableMaterialHousingPCOptical facePMMAACablePVCMaseapprox. 75 gCompliance with standards and directi-approx. 75 g <th></th>	
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Reference targetreflector C110-2Light sourceLEDLight typemodulated visible red light , 640 nmDiameter of the light spotapprox. 160 nm at 4.5 mAngle of divergenceapprox. 2°Optical facelateralAmbient light limit30000 LuxFunctional safety related parametersMTTF $_{0}$ MTTF $_{0}$ 920 aMission Time (T <sub>M</sub> )20 aDiagnostic Coverage (DC)0%Indicators/operating meansUED green, statically lit Power onFunction displayLED green, statically lit power onSwitching voltageUBNo-load supply currentI_0Voltagemax. 30 V DCNo-load supply currentI_0Switching typedark onSignal output1 NPN, short-circuit protected open collectorSwitching requencyf< 500 Hz	
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Operating display       LED green, statically lit Power on         Function display       LED yellow: lights up when receiving the light be when falling short of the stability control; OFF whis interrupted         Electrical specifications       0         Operating voltage       UB       10 30 V DC         No-load supply current       Io       < 20 mA	
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Output       0         Switching type       dark on         Signal output       1 NPN, short-circuit protected open collector         Switching voltage       max. 30 V DC         Switching current       max. 100 mA         Voltage drop       Ud       ≤ 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       2 m fixed cable         Material          Housing       PC         Optical face       PMMA         Cable       PVC         Mass       approx.75 g	
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Response time     ≤1 ms       Ambient conditions     -25 60 °C (-13 140 °F)       Ambient temperature     -25 60 °C (-40 158 °F)       Mechanical specifications     -40 70 °C (-40 158 °F)       Protection degree     IP67       Connection     2 m fixed cable       Material     -20 70 °C (-40 158 °F)       Material     -20 70 °C (-40 158 °F)       Material     POC       Optical face     PMMA       Cable     PVC       Mass     approx.75 g	
Ambient conditions       -25 60 °C (-13 140 °F)         Ambient temperature       -25 60 °C (-40 158 °F)         Storage temperature       -40 70 °C (-40 158 °F)         Mechanical specifications       Protection degree         Protection degree       IP67         Connection       2 m fixed cable         Material       PC         I housing       PC         Optical face       PMMA         Cable       PVC         Mass       approx.75 g	
Ambient temperature       -25 60 °C (-13 140 °F)         Storage temperature       -40 70 °C (-40 158 °F)         Mechanical specifications       IP67         Protection degree       IP67         Connection       2 m fixed cable         Material       PC         Optical face       PMMA         Cable       PVC         Mas       approx.75 g	
Storage temperature     -40 70 °C (-40 158 °F)       Mechanical specifications       Protection degree     IP67       Connection     2 m fixed cable       Material     PC       Housing     PC       Optical face     PMMA       Cable     PVC       Mass     approx.75 g	
Mechanical specifications         Protection degree       IP67         Connection       2 m fixed cable         Material       PC         Housing       PC         Optical face       PMMA         Cable       PVC         Mass       approx.75 g	
Protection degree     IP67       Connection     2 m fixed cable       Material     PC       Housing     PC       Optical face     PMMA       Cable     PVC       Mass     approx.75 g	
Connection     2 m fixed cable       Material     PC       Housing     PC       Optical face     PMMA       Cable     PVC       Mass     approx. 75 g	
Material       Housing     PC       Optical face     PMMA       Cable     PVC       Mass     approx. 75 g	
Housing     PC       Optical face     PMMA       Cable     PVC       Mass     approx. 75 g   Compliance with standards and directives	
Optical face     PMMA       Cable     PVC       Mass     approx. 75 g       Compliance with standards and directives	
Cable PVC Mass approx. 75 g Compliance with standards and directives	
Mass approx. 75 g Compliance with standards and directives	
Compliance with standards and directi- ves	
ves	
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 poll	ution dearee
1-2 according to IEC 60664-1	
UL approval cULus Listed, Class 2 Power Source	
CCC approval Products with a maximum operating voltage of bear a CCC marking because they do not requi	

CPZ18B03 Mounting Bracket with swivel nut

**BF 18** Mounting flange, 18 mm

BF 18-F

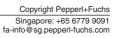
Mounting flange with dead stop, 18 mm

#### BF 5-30

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

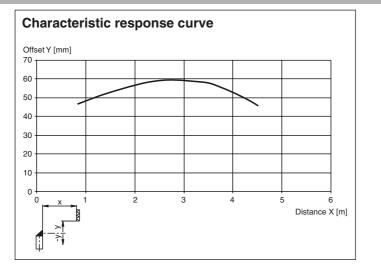
Other suitable accessories can be found at www.pepperl-fuchs.com

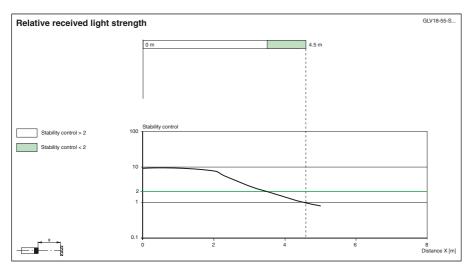
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# **Curves/Diagrams**





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