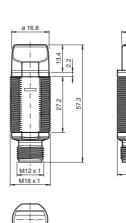
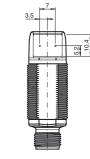


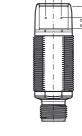
Dimensions





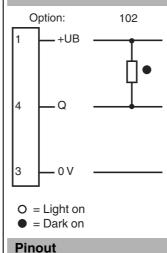


13.1



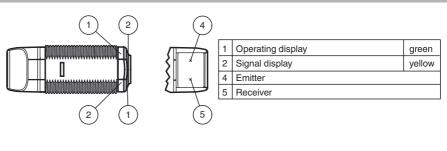


Electrical connection





Indicators/operating means



Model Number

GLV18-55-S/59/102/159

Retroreflective sensor

with 3-pin, M12 x 1 plastic connector

Features

- Efficient Line in a short M18 plastic ٠ housing for standard applications
- Very high detection range ٠
- 4 LEDs indicator for 360° visibility •
- Optimized potentiometer design for a 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.

Subject to modifications without notice Pepperl+Fuchs Group

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Germany: +49 621 776-4411 fa-info@pepperl-fuchs.com

Copyright Pepperl+Fuchs Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



| | | Accessories |
|-------------|---|---|
| | | CPZ18B03 |
| e | 0 3.5 m | Mounting Bracket with swivel nut |
| | 0.05 3.5 m | Mounting Bracket with Swiver nat |
| ige | 4.5 m | BF 18 |
| | reflector C110-2 | Mounting flange, 18 mm |
| | LED | |
| | modulated visible red light , 640 nm | BF 18-F |
| ot | approx. 160 mm at 4.5 m | Mounting flange with dead stop, 18 mm |
| | approx. 2 ° | BF 5-30 |
| | lateral | Universal mounting bracket for cylindrica |
| | 30000 Lux | . . |
| ed paramete | | sensors with a diameter of 5 30 mm |
| | 920 a | V11-G-2M-PUR |
| | 20 a | Cable socket, M12, 3-pin, PUR cable |
| DC) | 0 % | |
| eans | | V11-W-2M-PUR |
| | LED green, statically lit Power on | Cable socket, M12, 3-pin, PUR cable |
| | LED yellow: lights up when receiving the light beam ; flashes when falling short of the stability control; OFF when light beam | Other suitable accessories can be found |
| | is interrupted | www.pepperl-fuchs.com |
| S | | |
| | J _B 10 30 V DC | |
| ١ | ₀ < 20 mA | |
| | | |
| | dark on | |
| | 1 NPN, short-circuit protected open collector | |
| | max. 30 V DC | |
| | max. 100 mA | |
| | $J_d \leq 1.5 \text{ V DC}$ | |
| f | | |
| | ≤ 1 ms | |
| | | |
| | -25 60 °C (-13 140 °F) | |
| | -40 70 °C (-40 158 °F) | |
| ons | | |
| | IP67 | |
| | Connector M12 x 1, 3-pin | |
| | | |
| | PC | |
| | PMMA | |
| | plastic | |
| | approx. 10 g | |
| ards and di | recti- | |
| | | |
| | EN 60947-5-2:2007 IEC 60947-5-2:2007 | |
| ates | | |
| | II, rated insulation voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1 | |
| | cULus Listed, Class 2 Power Source | |

Technical data

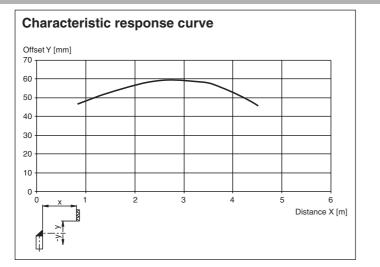
| General specifications 03.5 m Effective detection range 05.5 m Preshold detection range 4.5 m Reference target reflector C110-2 Light source LED Light source LED Light type modulated visible red light, 640 nm Diameter of the light spot approx. 160 mm at 4.5 m Angle of divergence approx. 2 ° Optical face lateral Ambient light limit 30000 Lux Functional safety related parameters modulated visible red light, 640 nm Mission Time (T ₁₄) 20 a Mission Time (T ₁₄) 20 a Indicators/operating means Use and the stability control, OFF when light bean if lashes when falling short of the stability control, OFF when light bean is interrupted Function display LED green, statically lit Power on LED yellow: light up when receiving the light beam is interrupted Operating display 10 30 V DC No-load supply current 10 av 0 V DC Switching voltage max. 100 mA Voltage drop U _d < 10 SV DC Switching current <th>recimical data</th> <th></th> <th></th> | recimical data | | |
|--|----------------------------------|---------------------------|--|
| 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 nm at 4.5 m Angle of divergence approx. 160 nm at 4.5 m Angle of divergence approx. 160 nm at 4.5 m Angle of divergence approx. 160 nm at 4.5 m Ambient light limit 30000 Lux Functional safety related parameters TTTF_g MTTF_g 920 a Diagnostic Coverage (DC) 0 % Indicators/operating means 0 % Operating display LED green, statically lit Power on Function display LED velow: lights up when receiving the light beam ; flashes when falling short of the stability control; OFF when light bear is interrupted Electrical specifications 0 30 V DC Overating voltage UB 10 30 V DC No-load supply current io 30 V DC Switching type dark on Signal output 1 NPN, short-circuit protected open collector Switching frequency f 500 Hz Response time <1 ms | General specifications | | |
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| 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 Functional safety related parameters motical safety related parameters MTTF _d 920 a Diagnostic Coverage (DC) 0 % Indicators/operating means Operating display Operating voltage UB Punction display LED green, statically lit Power on Function display LED yellow: lights up when receiving the light beam ; flashest when falling short of the stability control; OFF when light beam ; flashest when falling short of the stability control; OFF when light beam ; flashest when falling short of the stability control; OFF when light beam ; flashest when falling short of the stability control; OFF when light beam ; flashest when falling short of the stability control; OFF when light beam ; flashest when falling short of the stability control; OFF when light beam ; flashest when falling short of the stability control; OFF when light beam ; flashest when falling short of the stability control; OFF when light beam ; flashest when falling short of the stability control; OFF when light beam ; flashest when falling short of the stability control; OFF when light beam ; flashest when falling short of the stability control; OFF when ligh | Reflector distance | 0.05 3.5 m | |
| Light source LED Light type modulated visible red light , 640 nm Diameter of the light spot approx. 160 nm at 4.5 m Angle of divergence approx. 2 ° Optical face lateral Ambient light limit 30000 Lux Functional safety related parameters Functional safety related parameters MTTF _d 920 a Mission Time (T _M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means UED green, statically lit Power on Functional splay LED pation: lights up when receiving the light beam ; flashes when falling short of the stability control; OFF when light bear is interrupted Electrical specifications Operating voltage Operating voltage Ug 10 30 V DC No-load supply current l0 <20 mA | Threshold detection range | 4.5 m | |
| 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 Functional safety related parameters MTTF _q 920 a Mission Time (T _M) 20 a Diagnostic Coverage (DC) 0% Indicators/operating means Operating display LED green, statically lit Power on Function display LED green, statically lit Power on Function display LED yellow: lights up when receiving the light beam ; flashes when failing short of the stability control; OFF when light bear is interrupted Electrical specifications Operating voltage UB 10 30 V DC No-load supply current I ₀ < 20 mA Output Switching type dark on Signal output 1 NPN, short-circuit protected open collector Switching output 0 utput 1 NPN, short-circuit protected open collector Switching frequency f 500 Hz Response time ≤ 1 ms Ambient temperature -25 60 °C (-13 140 °F) Storage temperature -40 70 °C (-40 158 °F) Mechanical specifications Protection degree IP67 Connection Connector M12 x 1, 3-pin Material Housing PC Connector plastic Mass approx. 10 g Compliance with standards and directives Standard conformity PC Approvals and certificates | Reference target | reflector C110-2 | |
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| Optical face lateral Ambient light limit 30000 Lux Functional safety related parameters MTTF_d MTTF_d 920 a Mission Time (T _M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means Operating display 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 0 Operating voltage UB No-load supply current lo Switching type dark on Signal output 1 NPN, short-circuit protected open collector Switching current max. 100 mA Voltage drop Ud Switching frequency f< 500 Hz | Diameter of the light spot | approx. 160 mm | at 4.5 m |
| Ambient light limit 30000 Lux Functional safety related parameters 920 a MTTF_d 920 a Mission Time (T _M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means UED green, statically lit Power on Function display LED pellow: lights up when receiving the light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes when falling short of the stability control; OFF when light beam : flashes with flaght beam : flashes with flaght beam : flashes with standards and upper : 20 mA Output 1 NPN, short-circuit protected open collector | Angle of divergence | approx. 2 ° | |
| Functional safety related parametersMTF F_d 920 aMTST F_d 920 aMission Time (T _M)20 aDiagnostic Coverage (DC)0 %Indicators/operating meansOperating displayLED green, statically lit Power onFunction displayLED yellow: lights up when receiving the light beam ; flashes when failing short of the stability control; OFF when light beam is interruptedElectrical specificationsOperating voltageOperating voltageUB 10 30 V DCNo-load supply currentI0 0 < 20 mA | Optical face | lateral | |
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| Indicators/operating means LED green, statically lit Power on Operating 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 0 Operating voltage UB 10 30 V DC No-load supply current I0 20 mA Output 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 max. 100 mA Voltage drop Ud ≤ 1 S V DC Switching frequency f 500 Hz Response time ≤ 1 ms Ambient conditions Ambient conditions -25 60 °C (-13 140 °F) Storage temperature -40 70 °C (-40 158 °F) Mechanical specifications -25 60 °C (-13 140 °F) Protection degree IP67 Connector Connector M12 x 1, 3-pin Material -20 70 °C (-40 158 °F) Housing PC Optical face PMMA Connector p | | | |
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| Operating voltageUB10 30 V DCNo-load supply current I_0 < 20 mA | i unoton display | when falling sho | |
| No-load supply current Io < 20 mA | Electrical specifications | | |
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| 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 ≤ 1 ms Ambient temperature -25 60 °C (-13 140 °F) Storage temperature -25 60 °C (-40 158 °F) Mechanical specifications Connector M12 x 1, 3-pin Material Connector M12 x 1, 3-pin Material PC Optical face PMMA Connector plastic Mass approx. 10 g Standard conformity EN 60947-5-2:2007 Product standard EN 60947-5-2:2007 | Output | | |
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| Switching voltagemax. 30 V DCSwitching currentmax. 100 mAVoltage dropUd≤ 1.5 V DCSwitching frequencyf500 HzResponse time≤ 1 msAmbient conditionsAmbient temperature-25 60 °C (-13 140 °F)Storage temperature-40 70 °C (-40 158 °F)Mechanical specificationsProtection degreeIP67ConnectorConnector M12 x 1, 3-pinMaterialHousingPCOptical facePMMAConnectorplasticMassapprox. 10 gStandard conformityEN 60947-5-2:2007 IEC 60947-5-2:2007Product standardEN 60947-5-2:2007Kapprovals and certificatesF | • , . | | cuit protected open collector |
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| Optical face PMMA Connector plastic Mass approx. 10 g Compliance with standards and directi- ves Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 | | PO | |
| Connector plastic Mass approx. 10 g Compliance with standards and directi- ves Standard conformity Standard conformity EN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates | - | | |
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| ves Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates | Mass | approx. 10 g | |
| Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 | ves | recti- | |
| IEC 60947-5-2:2007 Approvals and certificates | • | | |
| | Product standard | | |
| | Approvals and certificates | | |
| 1-2 according to IEC 60664-1 | Protection class | | |
| UL approval cULus Listed, Class 2 Power Source | UL approval | cULus Listed, (| Class 2 Power Source |
| CCC approval Products with a maximum operating voltage of ≤36 V do no bear a CCC marking because they do not require approval. | CCC approval | | |
| CCC approval Products with a maximum operating voltage of ≤36 V do no | | Products with a | a maximum operating voltage of ≤36 V do no |

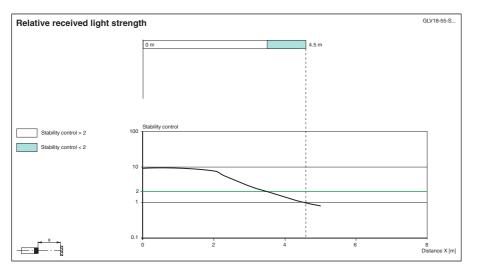
Release date: 2013-01-09 09:03 Date of issue: 2013-01-23 190538_eng.xml



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Curves/Diagrams





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