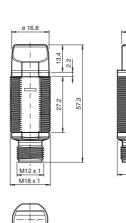
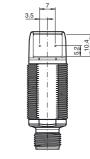


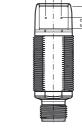
#### Dimensions





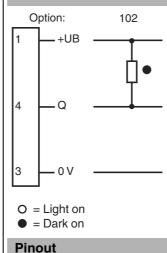


13.1



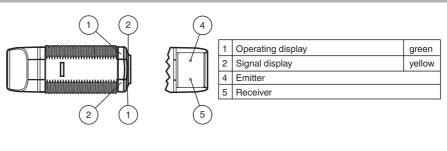


#### **Electrical connection**





#### 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	<b>.</b> .
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 <sub>B</sub> 10 30 V DC	
١	<sub>0</sub> < 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**

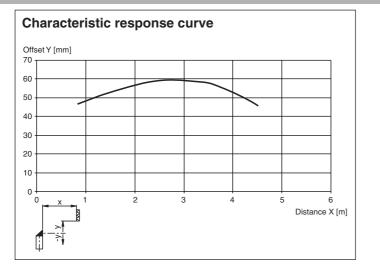
General specifications         03.5 m           Effective detection range         05.5 m           Preshold detection range         4.5 m           Reference target         reflector C110-2           Light source         LED           Light source         LED           Light type         modulated visible 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 <sub>14</sub> )         20 a           Mission Time (T <sub>14</sub> )         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 <sub>d</sub> < 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		
Threshold detection range4.5 mReference targetreflector C110-2Light sourceLEDLight sourceBebourceLight typemodulated visible red light , 640 nmDiameter of the light spotapprox. 160 mm at 4.5 mAngle of divergenceapprox. 2 °Optical facelateralAmbient light limit30000 LuxFunctional safety related parametersMTTFqMTTFq920 aMission Time (T <sub>M</sub> )20 aDiganostic Coverage (DC)0 %Indicators/operating meansUED green, statically lit Power onPunction displayLED green, statically lit Power onFunction displayLED green, statically lit Power onPunction displayLED yellow: lights up when receiving the light beam : flashes when failing short of the stability control; OFF when light beamOperating voltageUB10 30 V DCNo-laad supply currentI0< 20 mA	Effective detection range	0 3.5 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         Functional safety related parameters       motical safety related parameters         MTTF <sub>d</sub> 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 <sub>d</sub> 920 a         Mission Time (T <sub>M</sub> )       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 <sub>q</sub> 920 a Mission Time (T <sub>M</sub> ) 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 <sub>0</sub> < 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	
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       920 a         MTFr_d       920 a         Diagnostic Coverage (DC)       0 %         Indicators/operating means       0 %         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 ; 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 ; short dup up is the stability control; OFF when i	Light source	LED	
Angle of divergence       approx. 2°         Optical face       lateral         Ambient light limit       30000 Lux         Functional safety related parameters       920 a         MTTF <sub>d</sub> 920 a         Mission Time (T <sub>W</sub> )       20 a         Diagnostic Coverage (DC)       0%         Indicators/operating means       UED genen, statically lit Power on         Operating display       LED genen, 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         Operating voltage       UB       10 30 V DC         No-load supply current       I0       < 20 mA	Light type	modulated visib	le red light , 640 nm
Optical face         lateral           Ambient light limit         30000 Lux           Functional safety related parameters         MTTF_d           MTTF_d         920 a           Mission Time (T <sub>M</sub> )         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 <sub>M</sub> )       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 <sub>M</sub> )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	
MTTFd       920 a         Mission Time (T <sub>M</sub> )       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       U <sub>B</sub> No-load supply current       Io         Voltput       20 a         Switching type       dark on         Signal output       1 NPN, short-circuit protected open collector         Switching trequency       f         Switching frequency       f         Switching frequency       f         Storage temperature       -25 60 °C (-13 140 °F)         Storage temperature       -40 70 °C (-40 158 °F)         Mechanical specifications       IP67         Connector M12 x 1, 3-pin       Material         Housing       PC         Optical face       PMMA         Connector       plastic         Material       EPC         Housing       PC         Optical face       PMMA	Ambient light limit	30000 Lux	
MTTFd       920 a         Mission Time (T <sub>M</sub> )       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       U <sub>B</sub> No-load supply current       Io         Voltput       20 a         Switching type       dark on         Signal output       1 NPN, short-circuit protected open collector         Switching trequency       f         Switching frequency       f         Switching frequency       f         Storage temperature       -25 60 °C (-13 140 °F)         Storage temperature       -40 70 °C (-40 158 °F)         Mechanical specifications       IP67         Connector M12 x 1, 3-pin       Material         Housing       PC         Optical face       PMMA         Connector       plastic         Material       EPC         Housing       PC         Optical face       PMMA	Functional safety related parame	ers	
Mission Time (T <sub>M</sub> )       20 a         Diagnostic Coverage (DC)       0 %         Indicators/operating means       0         Operating 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 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 short of the stability control; OFF when light beam ; flashest when short of the stability control; OFF when light beam ; flashest when short bea			
Diagnostic Coverage (DC)       0 %         Indicators/operating means       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         Operating voltage       UB       10 30 V DC         No-load supply current       I0       <20 mA	6	20 a	
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			
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       UB       10 30 V DC         No-load supply current       I0       < 20 mA			
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       UB       10 30 V DC         No-load supply current       I0       < 20 mA		LED green stat	cally lit Power on
When falling short of the stability control; OFF when light bear is interrupted         Electrical specifications         Operating voltage       UB       1030 V DC         No-load supply current       I0       < 20 mA		-	-
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		
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          Armbient temperature       -25 60 °C (-13 140 °F)         Storage temperature       -25 60 °C (-40 158 °F)         Mechanical specifications          Protection degree       IP67         Connector M12 x 1, 3-pin       Material         Housing       PC         Optical face       PMMA         Connector       plastic         Mass       approx. 10 g         Compliance with standards and directives       EN 60947-5-2:2007         Vector standard       EN 60947-5-2:2007         IEC 60947-5-2:2007       IEC 60947-5-2:2007	Operating voltage	J <sub>B</sub> 10 30 V DC	
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	No-load supply current	<sub>0</sub> < 20 mA	
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		
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         Connector       Connector M12 x 1, 3-pin         Material          Housing       PC         Optical face       PMMA         Connector       plastic         Mass       approx. 10 g         Compliance with standards and directives          Ves       EN 60947-5-2:2007         Standard conformity       EN 60947-5-2:2007         Product standard       EN 60947-5-2:2007         IEC 60947-5-2:2007       EC 60947-5-2:2007	•	dark on	
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
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         Connector       IP67         Connecton       Connector M12 x 1, 3-pin         Material          Housing       PC         Optical face       PMMA         Connector       plastic         Mass       approx. 10 g         Compliance with standards and directi-       EN 60947-5-2:2007         Product standard       EN 60947-5-2:2007         IC 60947-5-2:2007       EC 60947-5-2:2007	•		
Voltage dropUd≤ 1.5 V DCSwitching frequencyf500 HzResponse time≤ 1 msAmbient conditions-25 60 °C (-13 140 °F)Storage temperature-40 70 °C (-40 158 °F)Mechanical specificationsIP67Connection degreeIP67ConnectionConnector M12 x 1, 3-pinMaterialPCOptical facePMMAConnectorplasticMassapprox. 10 gCompliance with standards and directi- VesStandard conformityEN 60947-5-2:2007 IEC 60947-5-2:2007Product standardEN 60947-5-2:2007 IEC 60947-5-2:2007			
Switching frequency       f       500 Hz         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       Connector M12 x 1, 3-pin         Material       PC         Housing       PC         Optical face       PMMA         Connector       plastic         Mass       approx. 10 g         Compliance with standards and directi-tives       EN 60947-5-2:2007         Standard conformity       EN 60947-5-2:2007         Product standard       EN 60947-5-2:2007         F       F       F	0		
Response time       ≤ 1 ms         Ambient conditions       -25 60 °C (-13 140 °F)         Ambient temperature       -25 60 °C (-40 158 °F)         Mechanical specifications       -25 60 °C (-40 158 °F)         Protection degree       IP67         Connection       Connector M12 x 1, 3-pin         Material       -25 60 °C (-40 158 °F)         Housing       PC         Optical face       PMMA         Connector       plastic         Mass       approx. 10 g         Compliance with standards and directives       EN 60947-5-2:2007         Product standard       EN 60947-5-2:2007         IC 60947-5-2:2007       IC 60947-5-2:2007		u	
Ambient conditions         Ambient temperature       -25 60 °C (-13 140 °F)         Storage temperature       -40 70 °C (-40 158 °F)         Mechanical specifications       IP67         Connection degree       IP67         Connector       M12 x 1, 3-pin         Material       PC         Optical face       PMMA         Connector       plastic         Mass       approx. 10 g         Compliance with standards and directi-tives       EN 60947-5-2:2007         Product standard       EN 60947-5-2:2007         Approvals and certificates       EN 60947-5-2:2007			
Ambient temperature       -25 60 °C (-13 140 °F)         Storage temperature       -40 70 °C (-40 158 °F)         Mechanical specifications       IPorection degree         Protection degree       IP67         Connection       Connector M12 x 1, 3-pin         Material       PC         Housing       PC         Optical face       PMMA         Connector       plastic         Mass       approx. 10 g         Compliance with standards and directi-       EN 60947-5-2:2007         Product standard       EN 60947-5-2:2007         Kapprovals and certificates       EN 60947-5-2:2007	•	21110	
Storage temperature       -40 70 °C (-40 158 °F)         Mechanical specifications       IP67         Protection degree       IP67         Connection       Connector M12 x 1, 3-pin         Material       IP67         Housing       PC         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         Approvals and certificates       EN 60947-5-2:2007		-25 60 °C / 1	3 140 °E)
Mechanical specifications         Protection degree       IP67         Connection       Connector M12 x 1, 3-pin         Material       PC         Housing       PC         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       IEC 60947-5-2:2007	•		
Protection degree     IP67       Connection     Connector M12 x 1, 3-pin       Material     PC       Housing     PC       Optical face     PMMA       Connector     plastic       Mass     approx. 10 g       Standard conformity       Product standard     EN 60947-5-2:2007 IEC 60947-5-2:2007       Approvals and certificates		-40 70 °C (-40	7 130 F)
Connection     Connector M12 x 1, 3-pin       Material     PC       Housing     PC       Optical face     PMMA       Connector     plastic       Mass     approx. 10 g       Compliance with standards and directi- ves       Standard conformity     FN 60947-5-2:2007 IEC 60947-5-2:2007       Product standard     EN 60947-5-2:2007	•	10.07	
Material     PC       Poptical face     PMMA       Connector     plastic       Mass     approx. 10 g       Compliance with standards and directi- ves       Standard conformity     FN 60947-5-2:2007 IEC 60947-5-2:2007       Product standard     EN 60947-5-2:2007	•		v 1. O sin
Housing     PC       Optical face     PMMA       Connector     plastic       Mass     approx. 10 g       Standard conformity       Product standard     EN 60947-5-2:2007 IEC 60947-5-2:2007       Approvals and certificates		Connector M12	x i, 3-pin
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	-		
Mass     approx. 10 g       Compliance with standards and directives       Standard conformity       Product standard       EN 60947-5-2:2007       IEC 60947-5-2:2007			
Compliance with standards and directives         Standard conformity         Product standard       EN 60947-5-2:2007         IEC 60947-5-2:2007         Approvals and certificates		•	
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

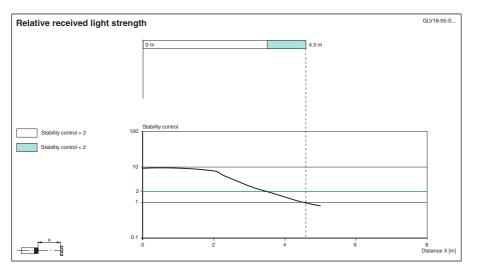
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## **Curves/Diagrams**





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