

GLL170-N334 GLL170

FIBER-OPTIC SENSORS





Ordering information

Туре	Part no.
GLL170-N334	6063338

Other models and accessories → www.sick.com/GLL170

Illustration may differ



Detailed technical data

Features

Туре	Stand-alone
Dimensions (W x H x D)	10 mm x 31.7 mm x 72.5 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 mm 190 mm, Proximity system ^{1) 2)} 0 mm 800 mm, Through-beam system ³⁾
Sensing range	0 mm 160 mm, Proximity system ^{1) 2)} 0 mm 700 mm, Through-beam system ³⁾
Type of light	Visible red light
Light source	LED ⁴⁾
Wave length	632 nm
Adjustment	Potentiometer, 8 turns ⁵⁾
Indication	LED
Display	Status LEDs

 $^{^{1)}}$ Object with 90 % reflectance (referred to standard white, DIN 5033).

²⁾ LL3-DK06.

³⁾ LL3-TB02.

 $^{^{4)}}$ Average service life: 100,000 h at TU = +25 °C.

 $^{^{5)}}$ Sensitivity scale 230 $^{\circ}.$

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	≤ 10 % ²⁾
Current consumption	30 mA ³⁾
Switching output	NPN
Number of switching outputs	1
Switching mode	Light/dark switching
Switching mode selector	Selectable via rotary switch
Output current I _{max.}	≤ 100 mA
Response time	≤ 250 µs ⁴⁾
Switching frequency	2 kHz
Time functions	Without time delay Off delay
Delay time	Selectable via rotary switch, 0 ms 40 ms
Connection type	Male connector M8, 4-pin
Cable material	PVC
Conductor cross-section	0.2 mm ²
Cable diameter	3.8 mm
Circuit protection	A ⁵⁾ B ⁶⁾ C ⁷⁾ D ⁸⁾
Protection class	III
Weight	19 g
Housing material	Plastic, PC/POM
Tightening torque, max.	0.5 Nm
Enclosure rating	IP66 ⁹⁾
Ambient operating temperature	-25 °C +55 °C
Ambient storage temperature	-40 °C +70 °C
UL File No.	NRKH2.E300503 & NRKH8.E300503

¹⁾ Limit values.

Safety-related parameters

MTTF _D	760 years
DC _{avg}	0%

 $^{^{2)}\,\}mbox{May}$ not exceed or fall below $\mbox{U}_{\mbox{\scriptsize V}}$ tolerances.

³⁾ Without load.

⁴⁾ Signal transit time with resistive load.

 $^{^{5)}}$ A = V_S connections reverse-polarity protected.

 $^{^{6)}}$ B = inputs and output reverse-polarity protected.

⁷⁾ C = interference suppression.

⁸⁾ D = outputs overcurrent and short-circuit protected.

⁹⁾ With correctly attached fibre-optic cable LL3.

Classifications

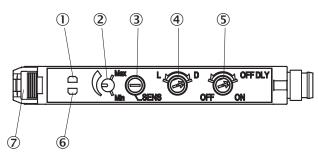
ECI@ss 5.0	27270905
ECI@ss 5.1.4	27270905
ECI@ss 6.0	27270905
ECI@ss 6.2	27270905
ECI@ss 7.0	27270905
ECI@ss 8.0	27270905
ECI@ss 8.1	27270905
ECI@ss 9.0	27270905
ECI@ss 10.0	27270905
ECI@ss 11.0	27270905
ETIM 5.0	EC002651
ETIM 6.0	EC002651
ETIM 7.0	EC002651
UNSPSC 16.0901	39121528

Connection diagram

Cd-066

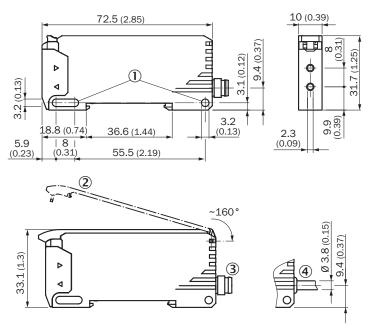
Adjustments possible

GLL170



- ① LED indicator orange, lights up when switching output is active
- ② Sensitivity scale 230°
- $\ensuremath{ \mbox{\fontfol}: potentiometer, 8 turns}$
- $\ensuremath{\textcircled{4}}$ Selector switch: "L.ON" (light switching) /"D.ON" (dark switching)
- $\ \, \mbox{(5)} \,\, \mbox{OFF delay selector switch: "ON" (on)/"OFF" (off), 40 ms fixed }$
- (a) LED signal strength indicator green, lights up, when light received < 0.9 or >1.1 (switching threshold = 1)
- ① Locking the fiber-optic cables

Dimensional drawing (Dimensions in mm (inch))



- ① Mounting holes
- ② Protective hood (optional), opens approx. 160°
- 3 Connector M8
- ④ Cable

Recommended accessories

Other models and accessories → www.sick.com/GLL170

	Brief description	Туре	Part no.
Device protec	tion (mechanical)		
	Protective Hood for GLL170, opens approx. 160°, PC	BF-GLL170	5336263
Mounting brackets and plates			
	Mounting bracket, steel, zinc coated, without mounting hardware	BEF-WLL180	5325812
Plug connectors and cables			
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF8U14- 020VA3XLEAX	2095888
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF8U14- 050VA3XLEAX	2095889
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YF8U14- 100VA3XLEAX	2095890

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	Brief description	Туре	Part no.
3	Head A: female connector, M8, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG8U14- 020VA3XLEAX	2095962
	Head A: female connector, M8, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG8U14- 050VA3XLEAX	2095963
	Head A: female connector, M8, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YG8U14- 100VA3XLEAX	2095964
	Head A: female connector, M8, 4-pin, straight Head B: - Cable: unshielded	DOS-0804-G	6009974
	Head A: female connector, M8, 4-pin, angled Head B: - Cable: unshielded	DOS-0804-W	6009975
	Head A: male connector, M8, 4-pin, straight Head B: - Cable: unshielded	STE-0804-G	6037323

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