

GLL170T-B434 GLL170

FIBER-OPTIC SENSORS AND FIBERS





Ordering information

Туре	Part no.
GLL170T-B434	6063341

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

Illustration may differ



Detailed technical data

Features

Device type	Stand-alone
Sensor/ detection principle	Fiber-optic photoelectric sensor
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 400 mm, Proximity system $^{1)}$ 2) 0 mm 1,320 mm, Through-beam system $^{3)}$
Sensing range	0 mm 350 mm, Proximity system $^{1)}$ 2) 0 mm 1,100 mm, Through-beam system $^{3)}$
Type of light	Visible red light
Light source	LED ⁴⁾
Wave length	632 nm
Adjustment	Teach-in button Cable Plus/minus button
Time type	On delay Off delay One shot Without time delay
Delay time	Programmable, 0 ms, 9,999 ms
Indication	Display
Display	Status LEDs, 4-digit digital display, display selectable between percentage value, absolute digit value and bar display / display of parameters

 $^{^{1)}}$ 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.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	≤ 10 % ²⁾
Power consumption	≤ 40 mA ³⁾
Switching output	PNP, NPN, Selectable via menu
Number of switching outputs	1
Switching mode	Light/dark switching
Switching mode selector	Selectable via menu
Output current I _{max.}	≤ 100 mA
Response time	\leq 250 μ s $^{4)}$ \leq 50 μ s, Selectable via menu $^{4)}$
Switching frequency	2 kHz 10 kHz
Input	Teach-in input
Connection type	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	22 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.

Classifications

ECI@ss 5.0	27270905
ECI@ss 5.1.4	27270905
ECI@ss 6.0	27270905
ECI@ss 6.2	27270905

 $^{^{2)}\,\}mathrm{May}$ not exceed or fall below U_{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.

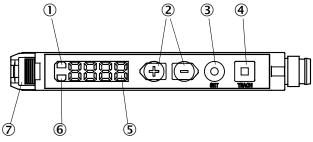
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ECI@ss 7.0	27270905
ECI@ss 8.0	27270905
ECI@ss 8.1	27270905
ECI@ss 9.0	27270905
ETIM 5.0	EC002651
ETIM 6.0	EC002651
UNSPSC 16.0901	39121528

Adjustments possible

GLL170T

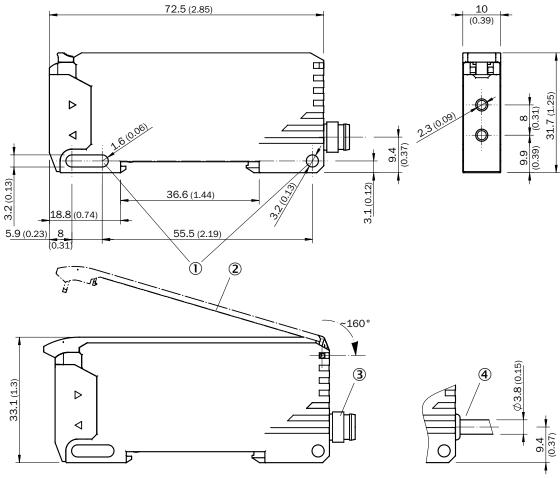


- $\ensuremath{\textcircled{1}}$ LED indicator orange, lights up when switching output is active
- ② Plus/minus button
- 3 SET button
- Teach-in button
- ⑤ Display
- ® LED indicator green: Supply voltage active
- ⑦ Locking the fiber-optic cables

Connection diagram

Cd-092

Dimensional drawing (Dimensions in mm (inch))



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

Recommended accessories

Other models and accessories \rightarrow www.sick.com/GLL170

	Brief description	Туре	Part no.
Device protection (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

FIBER-OPTIC SENSORS AND FIBERS

	Brief description	Туре	Part no.	
Other mounting	Other mounting accessories			
	Cutter for fibers, supplied with LL3	FC	5304141	
Plug connecto	ors and cables			
	Head A: female connector, M8, 4-pin, straight Head B: open cable ends Cable: PVC, unshielded, 2 m	DOL-0804-G02M	6009870	
	Head A: female connector, M8, 4-pin, straight Head B: open cable ends Cable: PVC, unshielded, 5 m	DOL-0804-G05M	6009872	
	Head A: female connector, M8, 4-pin, straight Head B: open cable ends Cable: PVC, unshielded, 10 m	DOL-0804-G10M	6010754	
	Head A: female connector, M8, 4-pin, angled Head B: open cable ends Cable: PVC, unshielded, 2 m	DOL-0804-W02M	6009871	
	Head A: female connector, M8, 4-pin, angled Head B: open cable ends Cable: PVC, unshielded, 5 m	DOL-0804-W05M	6009873	
	Head A: female connector, M8, 4-pin, angled Head B: open cable ends Cable: PVC, unshielded, 10 m	DOL-0804-W10M	6010755	
	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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