

GLL170T-B333

GLL170

FIBER-OPTIC SENSORS





Ordering information

Туре	Part no.
GLL170T-B333	6063342

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 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
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 T_U = +25 °C.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	≤ 10 % ²⁾
Current 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	≤ 250 µs ⁴⁾ ≤ 50 µs, Selectable via menu ⁴⁾
Switching frequency	2 kHz 10 kHz
Time functions	On delay Off delay One shot Without time delay
Delay time	Programmable, 0 ms 9,999 ms
Input	Teach-in input
Connection type	Connector M8, 3-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.

²⁾ 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.

Safety-related parameters

MTTF _D	300 years
DC _{avg}	0%

Classifications

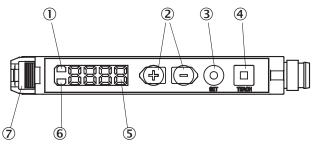
ECI@ss 5.0	27270905
ECI@ss 5.1.4	27270905
ECI@ss 6.0	27270905
ECI@ss 6.2	27270905
ECI@ss 7.0	27270905
ECI@ss 8.0	27270905
ECI@ss 8.1	27270905
ECI@ss 9.0	27270905
ECI@ss 10.0	27270905
ECI@ss 11.0	27270905
ETIM 5.0	EC002651
ETIM 6.0	EC002651
ETIM 7.0	EC002651
UNSPSC 16.0901	39121528

Connection diagram

Cd-045

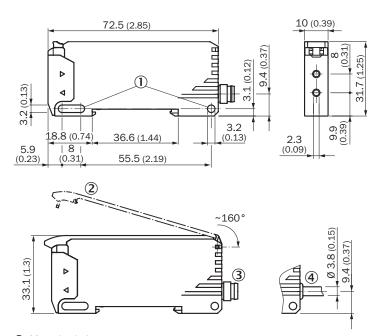
Adjustments possible

GLL170T



- ① LED indicator orange, lights up when switching output is active
- ② Plus/minus button
- 3 SET button
- ④ Teach-in button
- ⑤ Display
- ⑥ LED indicator green: Supply voltage active
- 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 protect	Device protection (mechanical)						
	Protective Hood for GLL170, opens approx. 160°, PC	BF-GLL170	5336263				
Mounting bra	Mounting brackets and plates						
3	Mounting bracket, steel, zinc coated, without mounting hardware	BEF-WLL180	5325812				
Plug connect	ors and cables						
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF8U13- 020VA1XLEAX	2095860				
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF8U13- 050VA1XLEAX	2095884				
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YF8U13- 100VA1XLEAX	2095885				
3	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG8U13- 020VA1XLEAX	2096165				
	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG8U13- 050VA1XLEAX	2096166				
	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YG8U13- 100VA1XLEAX	2096209				
	Head A: female connector, M8, 3-pin, straight Head B: - Cable: unshielded	DOS-0803-G	7902077				
	Head A: female connector, M8, 3-pin, angled Head B: - Cable: unshielded	DOS-0803-W	7902078				
	Head A: male connector, M8, 3-pin, straight Head B: - Cable: unshielded	STE-0803-G	6037322				

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