

# GLL170T-B432S10

GLL170

**FIBER-OPTIC AMPLIFIER** 





# Ordering information

Туре	Part no.
GLL170T-B432S10	6074562

Included in delivery: BEF-WLL180 (1)

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

Illustration may differ



#### Detailed technical data

#### **Features**

Bud at the	Fiber outing any lifter
Device type	Fiber-optic amplifier
Device type detail	Stand-alone 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 <sup>1) 2)</sup> 0 mm 1,100 mm, Through-beam system <sup>3)</sup>
Type of light	Visible red light
Light source	LED <sup>4)</sup>
Wave length	632 nm
Adjustment	Teach-in button Cable Plus/minus button
Indication	7-segment
Display	Status LEDs, 4-digit digital display, display selectable between percentage value, absolute digit value and bar display / display of parameters

 $<sup>^{1)}</sup>$  Object with 90% remission (based on standard white, DIN 5033).

<sup>&</sup>lt;sup>2)</sup> LL3-DK06.

<sup>&</sup>lt;sup>3)</sup> LL3-TB02.

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

# Mechanics/electronics

Supply voltage U <sub>B</sub>	10 V DC 30 V DC <sup>1)</sup>
Ripple	≤ 10 % <sup>2)</sup>
Current consumption	40 mA <sup>3)</sup>
Switching output	PNP, NPN, Selectable via menu
Number of switching outputs	1
Switching mode	Light/dark switching
Switching mode selector	Selectable via menu
Response time	$\leq$ 250 $\mu$ s, $\leq$ 50 $\mu$ s, Selectable via menu $^{4)}$
Switching frequency	2 kHz, 10 kHz
Time functions	Switch-on delayoff delayone shotWithout time delay
Delay time	Programmable, 0 ms 9,999 ms
Input	Teach-in input
Connection type	Cable, 4-wire, 2 m <sup>5)</sup>
Cable material	Plastic, PVC
Conductor cross section	0.2 mm <sup>2</sup>
Cable diameter	Ø 3.8 mm
Circuit protection	A <sup>6)</sup> B <sup>7)</sup> C <sup>8)</sup> D <sup>9)</sup>
Protection class	III
Weight	66 g
Housing material	Plastic, PC/POM
Tightening torque, max.	0.5 Nm
Enclosure rating	IP66 <sup>10)</sup>
Items supplied	BEF-WLL180 mounting bracket
Ambient operating temperature	-25 °C +55 °C
Ambient temperature, storage	-40 °C +70 °C
UL File No.	NRKH2.E300503 & NRKH8.E300503

<sup>1)</sup> Limit values.

# Safety-related parameters

$MTF_D$	300 years
DC <sub>avg</sub>	0 %

 $<sup>^{2)}\,\</sup>mbox{May}$  not fall below or exceed  $\mbox{U}_{\mbox{\sc V}}$  tolerances.

<sup>3)</sup> Without load.

<sup>&</sup>lt;sup>4)</sup> Signal transit time with resistive load.

<sup>&</sup>lt;sup>5)</sup> Do not bend below 0 °C.

 $<sup>^{6)}</sup>$  A = V<sub>S</sub> connections reverse-polarity protected.

 $<sup>^{7)}</sup>$  B = inputs and output reverse-polarity protected.

<sup>8)</sup> C = interference suppression.

<sup>9)</sup> D = outputs overcurrent and short-circuit protected.

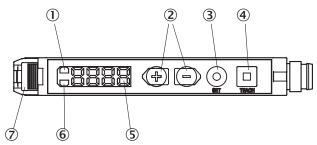
 $<sup>^{</sup>m 10)}$  With correctly attached fibre-optic cable LL3.

#### Classifications

ECLASS 5.0	27270905
ECLASS 5.1.4	27270905
ECLASS 6.0	27270905
ECLASS 6.2	27270905
ECLASS 7.0	27270905
ECLASS 8.0	27270905
ECLASS 8.1	27270905
ECLASS 9.0	27270905
ECLASS 10.0	27270905
ECLASS 11.0	27270905
ECLASS 12.0	27270905
ETIM 5.0	EC002651
ETIM 6.0	EC002651
ETIM 7.0	EC002651
ETIM 8.0	EC002651
UNSPSC 16.0901	39121528

#### Adjustments

GLL170T



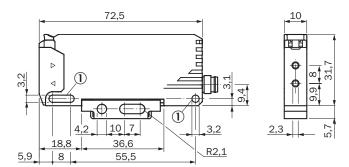
- $\ensuremath{\textcircled{1}}$  LED indicator orange, lights up when switching output is active
- ② Plus/minus button
- ③ SET button
- ④ Teach-in button
- ⑤ Display
- ⑥ LED indicator green: Supply voltage active
- ⑦ Locking the fiber-optic cables

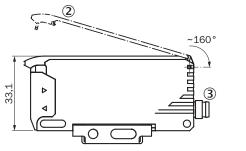
# Connection diagram

Cd-093



# 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 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
Others			
	<ul> <li>Connection type head A: Male connector, M8, 4-pin, straight, A-coded</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: 0.14 mm² 0.5 mm²</li> </ul>	STE-0804-G	6037323
	<ul> <li>Connection type head A: Female connector, M8, 4-pin, straight, A-coded</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: 0.14 mm² 0.5 mm²</li> </ul>	DOS-0804-G	6009974

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# FIBER-OPTIC AMPLIFIER

	Brief description	Туре	Part no.
	<ul> <li>Connection type head A: Female connector, M8, 4-pin, angled, A-coded</li> <li>Description: Unshielded</li> <li>Connection systems: Solder connection</li> <li>Permitted cross-section: ≤ 0.25 mm²</li> </ul>	DOS-0804-W	6009975
Fibers			
	LL3-DB01	LL3-DB01	5308074
	LL3-DB02	LL3-DB02	5308083
	LL3-DC38	LL3-DC38	5322472
	LL3-DR11	LL3-DR11	5326000
	LL3-DT01	LL3-DT01	5308076
	LL3-DV05	LL3-DV05	5322549
	LL3-TB01	LL3-TB01	5308050
	LL3-TH08	LL3-TH08	5325978
	LL3-TS40	LL3-TS40	5323971
	LL3-TV05	LL3-TV05	5322546
	LL3-TX01	LL3-TX01	5324173
	LL3-TY01	LL3-TY01	5308066

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