

GLL170-P334 GLL170

FIBER-OPTIC SENSORS AND FIBERS

SICKSensor Intelligence.

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Ordering information

Туре	Part no.
GLL170-P334	6063335

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

Illustration may differ



Detailed technical data

Features

Device type	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 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⁾
Time type	Without time delay Off delay
Delay time	Selectable via rotary switch, 0 ms, 40 ms
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⁾
Power consumption	30 mA ³⁾
Switching output	PNP
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
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.

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

 $^{^{2)}\,\}mbox{May}$ 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.

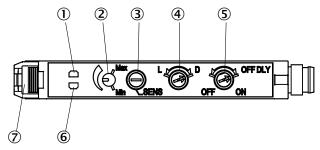
GLL170-P334 | GLL170

FIBER-OPTIC SENSORS AND FIBERS

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

Adjustments possible

GLL170

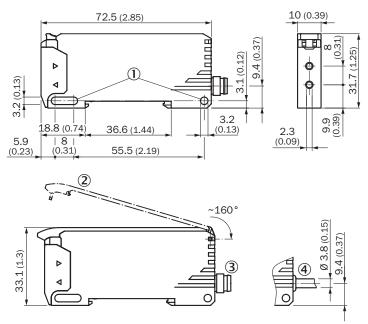


- $\ensuremath{\textcircled{1}}$ LED indicator orange, lights up when switching output is active
- ② Sensitivity scale 230°
- ③ Sensitivity control: potentiometer, 8 turns
- ④ Selector switch: "L.ON" (light switching) /"D.ON" (dark switching)
- ⑤ OFF delay selector switch: "ON" (on)/"OFF" (off), 40 ms fixed
- (6) LED signal strength indicator green, lights up, when light received < 0.9 or >1.1 (switching threshold = 1)
- ① Locking the fiber-optic cables

Connection diagram

Cd-066

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	Fibre-optic cables	Туре	Part no.
Device protect	Device protection (mechanical)			
	Protective Hood for GLL170, opens approx. 160°, PC		BF-GLL170	5336263
Mounting brad	ckets and plates			
300	Mounting bracket, steel, zinc coated, without mounting hardware		BEF-WLL180	5325812
Other mounting	ng accessories			
	Cutter for fibers, supplied with LL3		FC	5304141
Plug connecto	Plug connectors and cables			
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, un- shielded, 2 m		YF8U14- 020VA3XLEAX	2095888

	Brief description	Fibre-optic cables	Туре	Part no.
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, un- shielded, 5 m		YF8U14- 050VA3XLEAX	2095889
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, un- shielded, 10 m		YF8U14- 100VA3XLEAX	2095890
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
Others				
- Continue -	Through-beam system, Polymethyl- methacrylat (PMMA), Polyethylen (PE), PA, 2.2 mm	Fibers	LL3-TV0510000	5337026

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Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

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