

Delay time:	Programmable: 0 ... 9,999 ms
Indication:	Display
Sensor/detection principle:	Fiber-optic photoelectric sensor
Housing design (light emission):	Rectangular
Display:	LED status display / 2x 4-character digital dual displays, Set value (green indicator) and actual value (red indicator) are displayed simultaneously, display of parameters

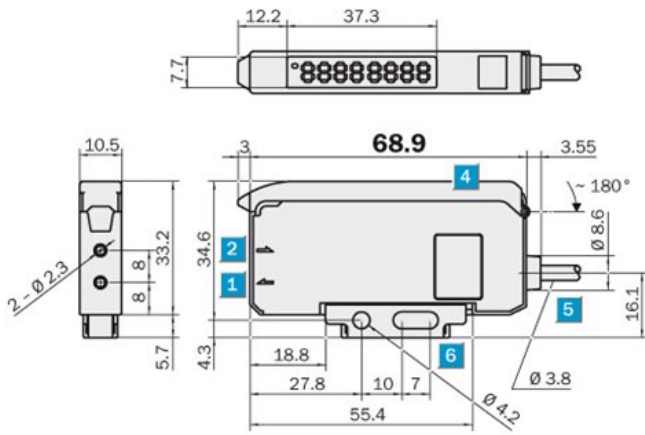
1) 5) Sensing range with 8 ms response time. Scanning range reduction with shorter response time (see tables LL3/WLL180T) 2) 6) LL3-TX01 3) Objects to be sensed with 90% reflectivity (based on DIN 5033 white standard). sensing distance with 8 ms response time. sensing distance reduction with shorter response time (see tables LL3/WLL180T) 4) LL3-DK06 7) Average service life 100,000 h at Ta = +25 °C

Mechanics/electronics

Enclosure rating:	IP 50 ¹⁾
Supply voltage:	12 V DC ... 24 V DC ²⁾
Ripple:	≤ 10 % ³⁾
Power consumption:	≤ 50 mA ⁴⁾
Switching output:	PNP, Light/dark-switching, manually selectable, open collector
Output current I _{max} :	≤ 100 mA
Response time:	≤ 2 ms ≤ 8 ms ≤ 16 μs ≤ 70 μs ⁵⁾ ≤ 250 μs
Switching frequency:	31.2 kHz 7.1 kHz 2 kHz 250 Hz 62.5 Hz
Connection type:	Cable, 4-wire, 2 m ⁶⁾
Cable material:	PVC
Conductor cross-section:	0.2 mm ²
Protection class:	III
Circuit protection:::	A, B, C, D ^{7) 8) 9) 10)}
Special device:	0
Housing material:	ABS/PC
Ambient operating temperature:	-25 °C ... 55 °C
Ambient storage temperature:	-40 °C ... 70 °C
Angle of dispersion:	Ca. 65 ° ¹¹⁾

1) With correctly attached fibre-optic cable LL3 and closed protection hood 2) +/- 10% 3) May not exceed or fall short of V ⁴⁾ Without load ⁵⁾ Selectable ⁶⁾ Do not bend below 0 °C ⁷⁾ A = V_S connections reverse-polarity protected ⁸⁾ B = inputs and output reverse-polarity protected ⁹⁾ C = interference suppression ¹⁰⁾ D = outputs overcurrent and short-circuit protected ¹¹⁾ See LL3 fiber-optic data

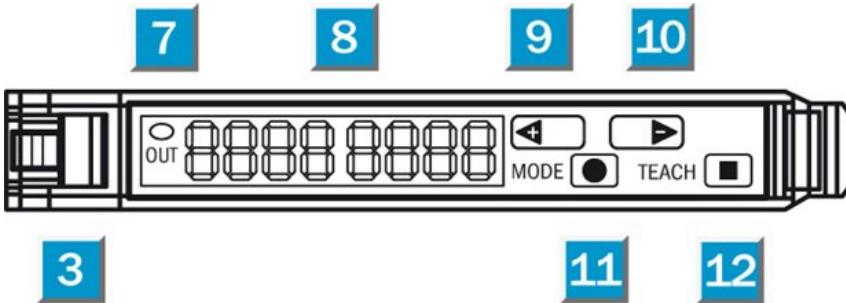
Dimensional drawing



- [1] Sender LED, installation of LL3 fibre-optic cable (sender fibre)
- [2] Receiver, installation of LL3 fibre optic cable (receiver fibre)
- [3] Locking the fiber-optic cables
- [4] Protective hood, can be raised at both ends
- [5] Connection
- [6] Mounting bracket, included



Adjustments possible



- [3] Locking the fiber-optic cables
- [7] LED indicator orange, lights up when switching output is active
- [8] Numeric display 2 x 4-digit; green: switching threshold, operating mode; red: actual value, Teach-in and function parameter
- [9] Step-button> (manual switching threshold: higher; or next function parameter)
- [10] Step-button< (manual switching threshold: lower; or previous function parameter)
- [11] Mode/Enter-button
- [12] "Teach-in" push button