



Wzmacniacze światłowodowe WLL180T, Fiber-optic photoelectric sensor

WLL180T-L434



SICK
Sensor Intelligence.

Nazwa modelu > **WLL180T-L434**

Numer części > **6039103**



At a glance

- Selectable response time up to 16 μ s
- Sensing range up to 20 m, sensing distance up to 1400 mm
- Bus-compatible with anti-interference
- 2 x 4-digit display
- Adjustable hysteresis
- Rotatable display screen
- High-resolution signal processing
- Programmable time delays

Your benefits

- Extremely rapid processes are detected reliably
- Workpieces are detected reliably even under the most difficult of ambient conditions such as dust, spray or mist
- No mutual effects from fiber-optic heads mounted in close proximity due to bus communication
- Easy monitoring of process parameters
- Hysteresis can be adapted to suit the application, e.g. when detecting tiny or transparent objects
- The display is easy to read, even under difficult installation conditions
- Tiny objects can be detected due to the high-resolution signal processing
- Time delays can be adjusted individually to suit the application



Cechy

Typ urządzenia:	Base unit ¹⁾
Wymiary (Szer. x Wys. x Głęb.):	10,5 mm x 34,6 mm x 71,9 mm
Maks. strefa działania::	0 m ... 20 m, through-beam system ^{2) 3)}
Sensing range:::	0 mm ... 1.400 mm, proximity system ^{4) 5) 6) 7)} 0 ... 18 m, through-beam system ⁸⁾
Nadajnik światła:	LED
Rodzaj światła:	widzialne światło czerwone
Długość fali:	650 nm
Nastawa:	adjustable
Nastawienie czułości:	Cable Cable
Adjustment of operating distance:	Przewód, +/- increment button, manual, Teach-Taste
Teach-in:	Menu-controlled

Typ czasu:	Without time delay time delay off switch on delay ON and OFF delay one shot
Czas opóźnienia:	Programmable: 0 ... 9.999 ms
Indication:	Display
Zasada działania czujnika/Sposób detekcji:	Fiber-optic photoelectric sensor
Housing desig (light emission):	Prostopadłościenna

With correctly attached fibre-optic cable LL3 and closed protection hood;

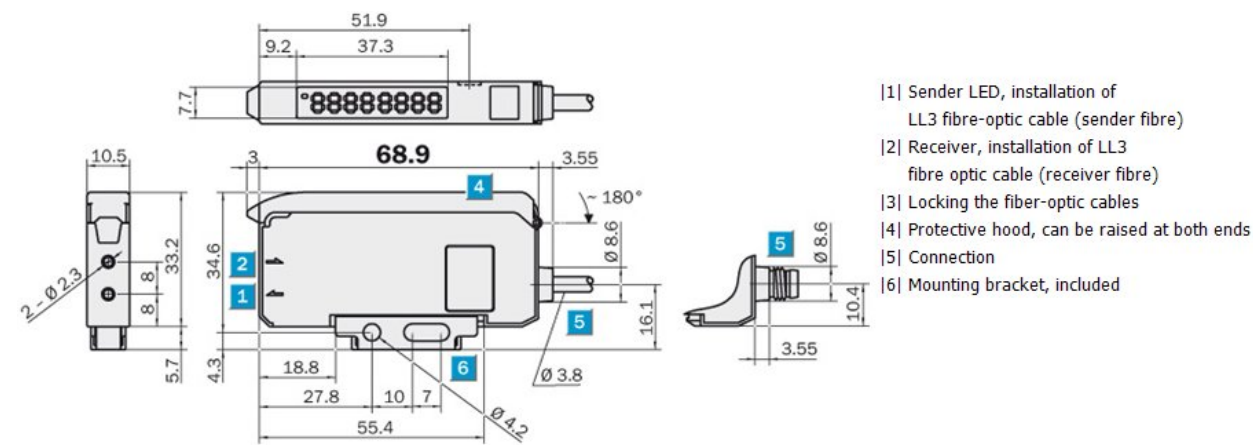
1) Up to 15 expansion units can be connected 2) 5) Scanning range with 8 ms response time. Scanning range reduction with shorter response time (see tables LL3/WLL180T) 3) 7) LL3-TX01 4) Objects to be sensed with 90% reflectivity (based on DIN 5033 white standard). sensing distance with 8 ms response time. sensing distance reduction with shorter response time (see tables LL3/WLL180T) 6) LL3-DK06 8) Average service life 100,000 h at Ta = +25 °C

Mechanika/elektronika

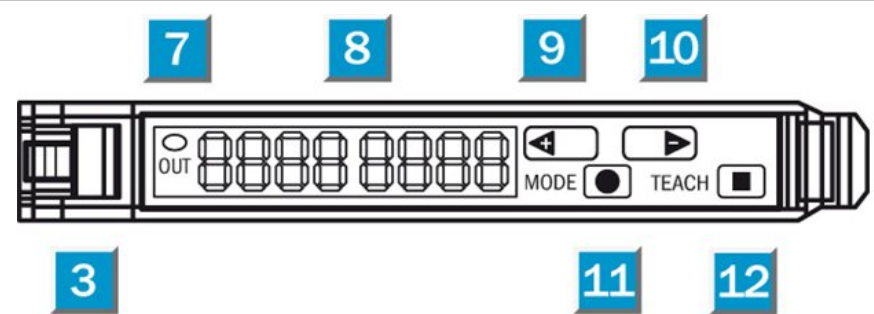
Rodzaj zabezpieczenia:	IP 50
Napięcie zasilania:	12 V DC ... 24 V DC 1)
Tętnienia resztkowe:	≤ 10 % 2)
Pobór prądu:	≤ 50 mA 3)
Wyjście przełączające:	NPN, przełączanie jasno/ciemno, wybierane, manually selectable, open collector
Output current I _{max} :	≤ 100 mA
Czas reakcji:	≤ 2 ms ≤ 8 ms ≤ 16 μs ≤ 70 μs 4) ≤ 250 μs
Switching frequency:	31,2 kHz 7,1 kHz 2 kHz 250 Hz 62,5 Hz
Typ połączenia:	Wtyk M8, 4-pinowe
Klasa ochronności:	III
Układ zabezpieczenia:::	A B C 5) 6) 7) 8) D
Special device:	0
Tworzywo, obudowa:	ABS/PC
Ambient temperature, operation:	-25 °C ... 55 °C
Ambient temperature, storage:	-40 °C ... 70 °C
Kąt promieniowania:	Ca. 65 ° 9)

1) ± 10% 2) May not exceed or fall short of V_S 3) Without load 4) Selectable 5) A = VS 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) See LL3 fiber-optic data

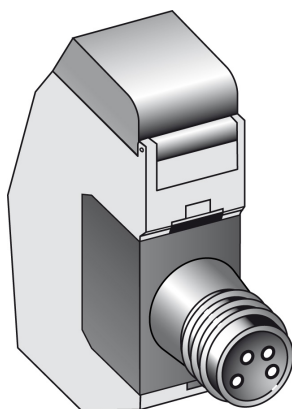
Rysunek techniczny



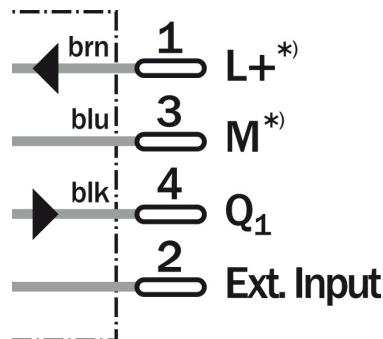
Możliwość dostosowania



Typ połączenia



Schemat połączenia



*) Only base unit

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