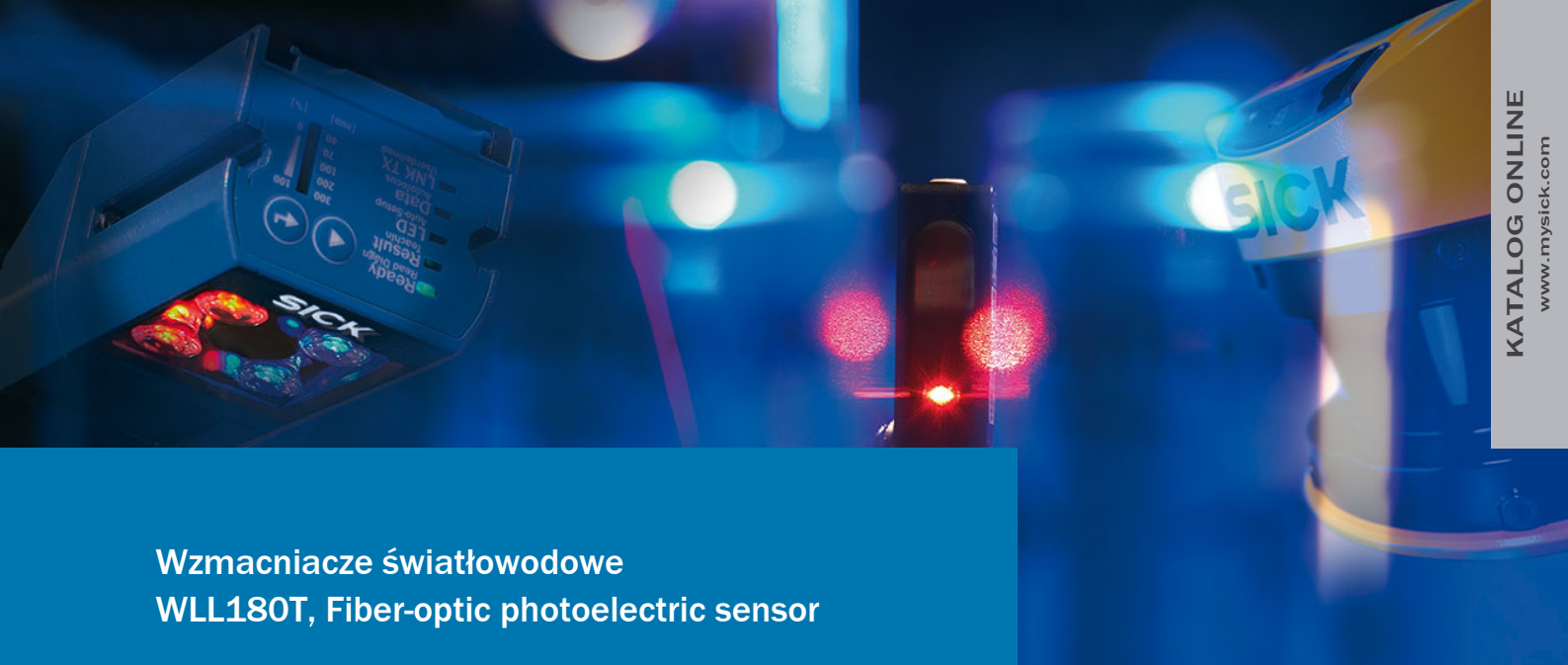




Wzmacniacze światłowodowe WLL180T, Fiber-optic photoelectric sensor

WLL180T-E232



Nazwa modelu > **WLL180T-E232**

Numer części > **6039100**



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:	Moduł rozszerzenia
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 ^{1) 2)}
Sensing range:::	0 mm ... 1.400 mm, proximity system ^{3) 4) 5) 6)}
Nadajnik światła:	LED ⁷⁾
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;

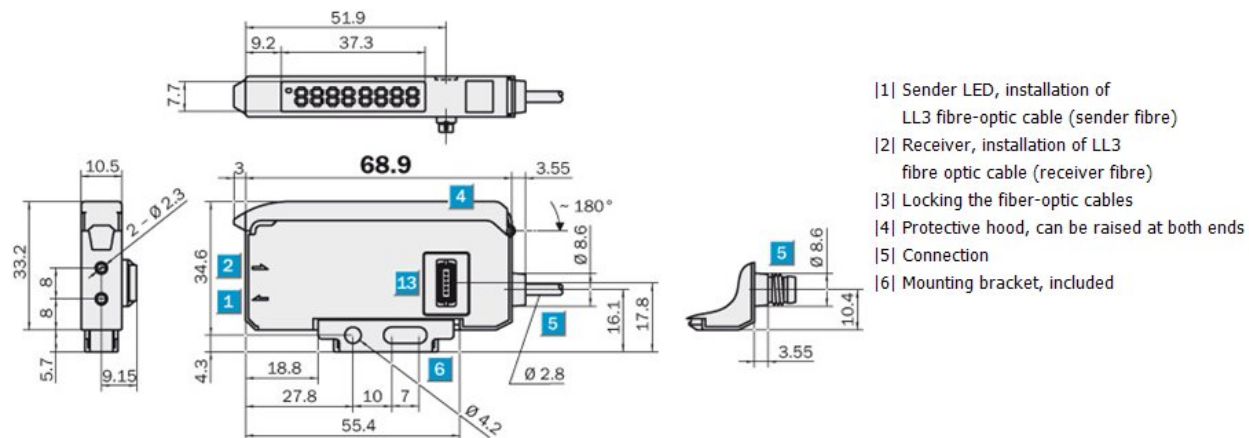
1) 4) Scanning range with 8 ms response time. Scanning range reduction with shorter response time (see tables LL3/WLL180T) 2) 6) LL3-TX01 3) Objects to be sensed with 90% reflectivity (based on DIN 5033 white standard). sensing distance with 8 ms response time. sensing distance reduction with shorter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

Mechanika/elektronika

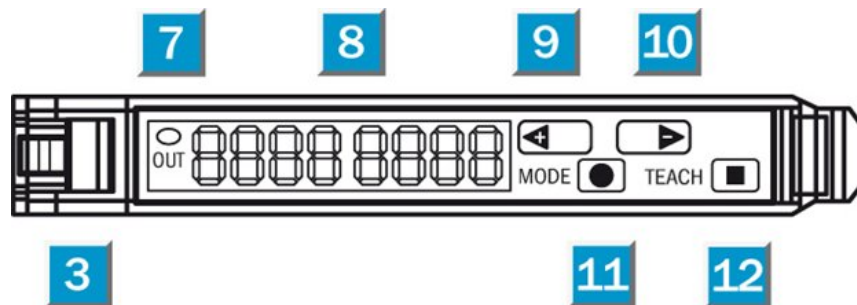
Rodzaj zabezpieczenia:	IP 50
Napięcie zasilania:	12 V DC ... 24 V DC ¹⁾
Tętnienia resztkowe:	≤ 10 % ²⁾
Pobór prądu:	≤ 50 mA ³⁾
Wyjście przełączające:	NPN, przełączanie jasno/ciemno, wybierane, manually selectable, open collector
Output current I _{max} .:	≤ 100 mA
Czas reakcji:	≤ 2 ms ≤ 8 ms ≤ 16 μs ≤ 70 μs ⁴⁾ ≤ 250 μs
Switching frequency:	31,2 kHz 7,1 kHz 2 kHz 250 Hz 62,5 Hz
Typ połączenia:	Cable, 2-wire 2 m ⁵⁾
Cable material:	PVC
Conductor cross-section:	0,2 mm ²
Klasa ochronności:	III
Układ zabezpieczenia::::	A B C ^{6) 7) 8) 9)} 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 ° ¹⁰⁾

1) ± 10% 2) May not exceed or fall short of V ³⁾ Without load ⁴⁾ Selectable ⁵⁾ Do not bend below 0 °C ⁶⁾ A = VS connections reverse-polarity protected ⁷⁾ B = inputs and output reverse-polarity protected ⁸⁾ C = interference suppression ⁹⁾ D = outputs overcurrent and short-circuit protected ¹⁰⁾ See LL3 fiber-optic data

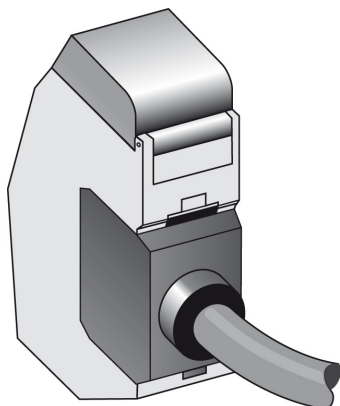
Rysunek techniczny



Możliwość dostosowania



Typ połączenia



Australia

Phone +61 3 9497 4100
1800 334 802 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail sac@sick.com.br

Canada

Phone +1(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

Ceská Republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +852-2763 6966
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail kundenservice@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-999-0590
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 3358 1341
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederlands

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail austefjord@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7 495 775 05 30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail admin@sicksgp.com.sg

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82-2 786 6321/4
E-Mail info@sickkorea.net

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886 2 2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 216 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 4 8865 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com