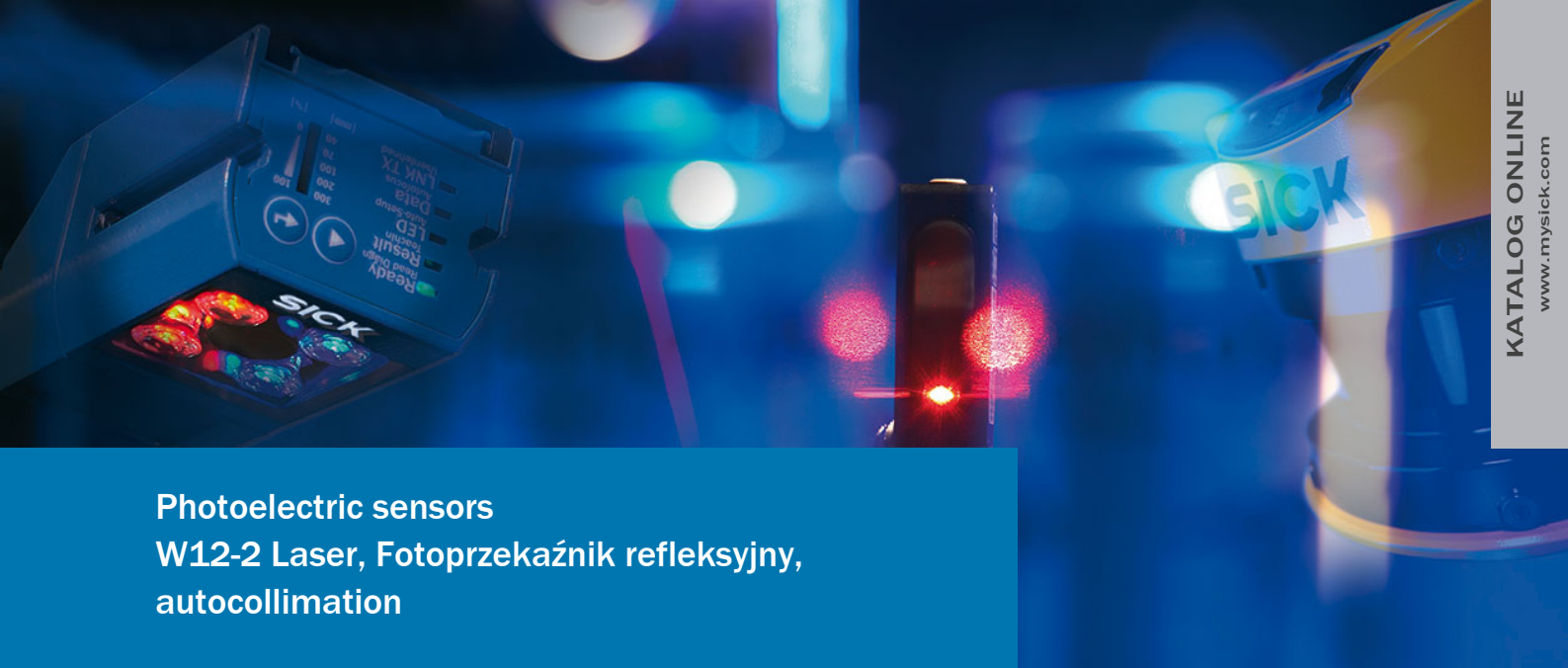




Photoelectric sensors W12-2 Laser, Fotoprzełącznik refleksyjny, autocollimation

WL12L-2B531



Nazwa modelu > **WL12L-2B531**

Numer części > **1047959**



At a glance

- Laser protection class 1 or 2
- Autocollimation optics
- Rugged sensors for industrial use
- Highly visible laser light spot for versatile detection of objects
- Rugged die-cast zinc housing with optional Teflon® coating
- Versatile mounting options due to dovetail mounting - mounting holes and oblong holes
- Highly visible status LEDs
- Adjustable sensing range and focus

Your benefits

Reliable detection of all types of objects

High immunity to optical interference ensures fewer false readings and less downtime

Highly visible laser light spot provides quick and easy setup

Highly visible status LEDs simplify commissioning and reduce installation time

Rugged metal housing (optional Teflon® coating available) requires less maintenance due to its resistance to high-pressure cleaning environments

Laser protection class 1 or 2 for eye safety

Rotatable connectors simplify installation



Cechy

Wymiary (Szer. x Wys. x Głęb.):	15 mm x 49 mm x 41,5 mm
Maks. strefa działania:	0 m ... 18 m
Housing desig (light emission):	Prostopadłościenna
Nadajnik światła:	Laser ¹⁾
Rodzaj światła:	widzialne światło czerwone
Długość fali:	650 nm
Nastawienie czułości:	Potentiometer
Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny, autocollimation
Light spot (distance):	0,8 mm (300 mm)

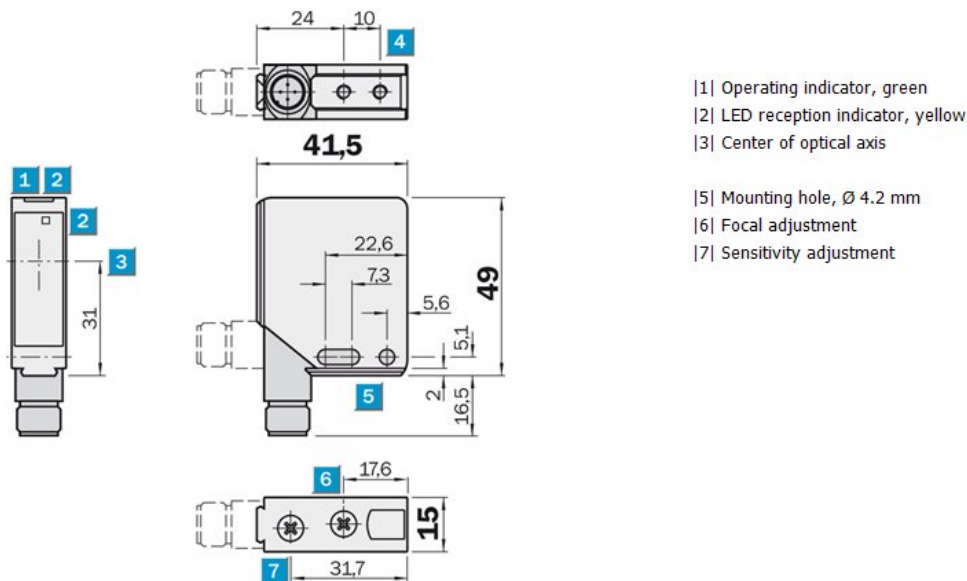
¹⁾ Average service life 50,000 h at Ta = +25 °C

Mechanika/elektronika

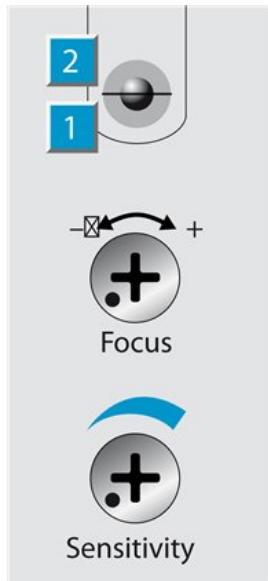
Rodzaj zabezpieczenia:	IP 67 IP 69K
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	$\leq 5 V_{ss}$ ²⁾
Pobór prądu:	$\leq 55 \text{ mA}$ ³⁾
Wyjście przełączające:	PNP, light switching NPN, Dark-switching, 0 V oder unbeschaltet, hellschaltend
Output current I _{max} :	100 mA
Czas reakcji:	$\leq 500 \mu\text{s}$ ⁴⁾
Switching frequency:	1.000 Hz ⁵⁾
Sposób przyłączenia:	Connector M12, 5-pin
Klasa ochronności:	II
Układ zabezpieczenia:::	A C ⁶⁾ 7) 8) D
Ciężar:	130 g
Ambient temperature, operation:	-10 °C ... 50 °C
Ambient temperature, storage:	-25 °C ... 75 °C
Filtr polaryzacyjny:	✓
Napięcie sygnału NPN HIGH/LOW:	$U_v - < 2,9 \text{ V}, U_v \text{ V}/0 \text{ V} \leq 1,5 \text{ V}$
Napięcie sygnału PNP HIGH/LOW:	$U_v - < 2,9 \text{ V}, U_v \text{ V}/0 \text{ V} \leq 1,5 \text{ V}$
Special device:	-
UL File-No.:	UL No. NRKH.E181493, CDRH-Konform (0312012-00)

¹⁾ Limit values, operation in short-circuit protected network max. 8 A ²⁾ May not exceed or fall short of V_S ³⁾ Without load ⁴⁾ Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ A = V_S connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected

Dimensional drawing

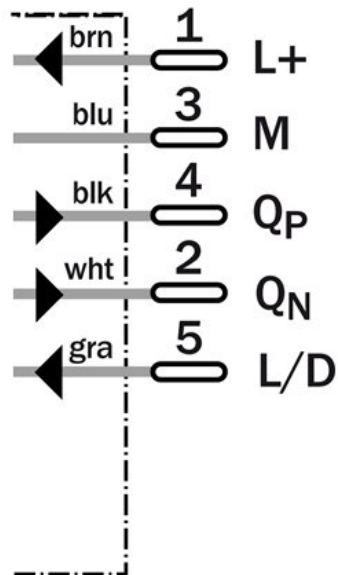


Einstell-Möglichkeiten

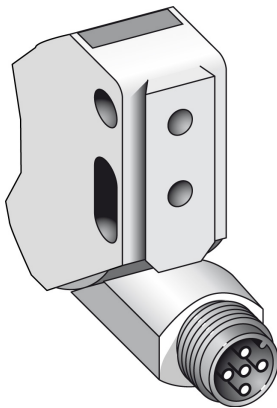


- [1] Operating indicator, green
- [2] LED reception indicator, yellow
- [6] Focal adjustment
- [7] Sensitivity adjustment

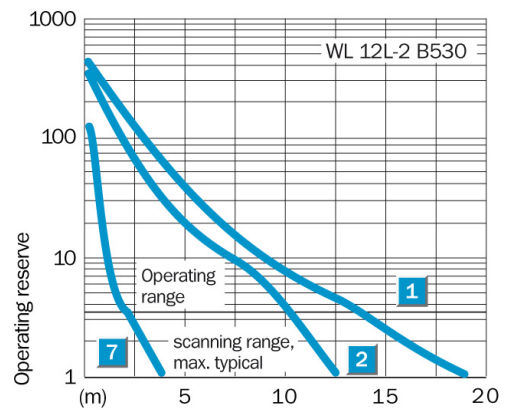
Connection diagram



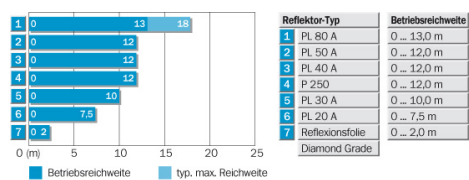
Connection type



Characteristic curve



Sensing range diagram



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