



Photoelectric sensors W12-2 Laser, Fotoprzełącznik odbiciowy, Tłumienie tła

WT12L-2B551



Nazwa modelu > [WT12L-2B551](#)

Numer części > [1047958](#)



At a glance

- Laser protection class 1 or 2
- Precise background suppression
- Rugged sensors for industrial use
- Highly visible laser light spot for versatile object detection
- 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
- Sensing range adjustment via potentiometer

Your benefits

Precise background suppression reduces false readings caused by stray background reflections

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 sensing distance adjustments and reduce installation time

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

Laser protection class 1 or 2 for eye safety

Rotatable connector provides easy installation



Cechy

Wymiary (Szer. x Wys. x Głęb.):	15 mm x 49 mm x 41,5 mm
Maks. strefa działania:	30 mm ... 200 mm ¹⁾
Housing desig (light emission):	Prostopadłościenna
Nadajnik światła:	Laser ²⁾
Rodzaj światła:	widzialne światło czerwone
Długość fali:	650 nm
Nastawienie czułości:	Potentiometer
Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Light spot (distance):	0,2 mm (100 mm)

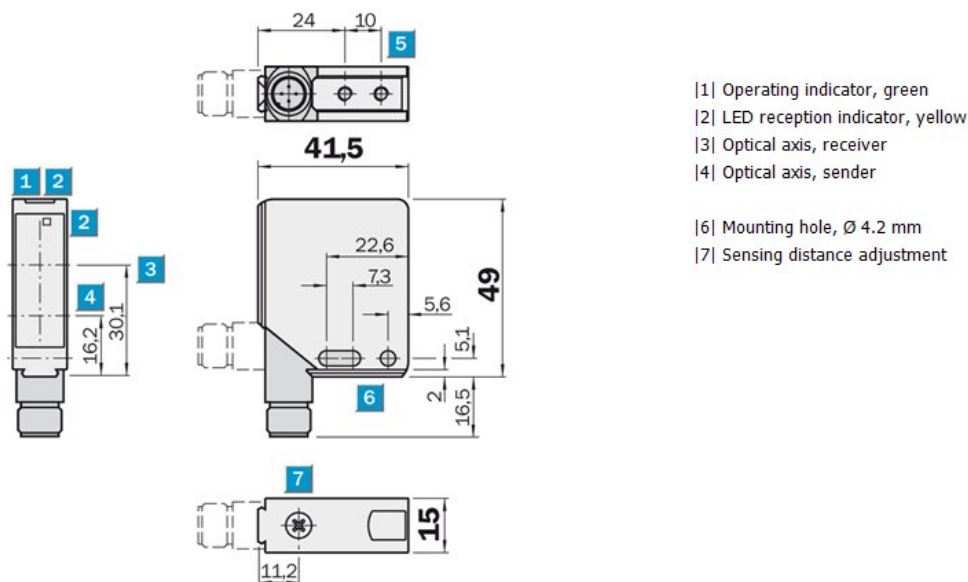
1) Objects to be sensed with 18 % reflectivity (based on DIN 5033 white standard) 2) Average service life 50,000 h at Ta = +25 °C

Mechanika/elektronika

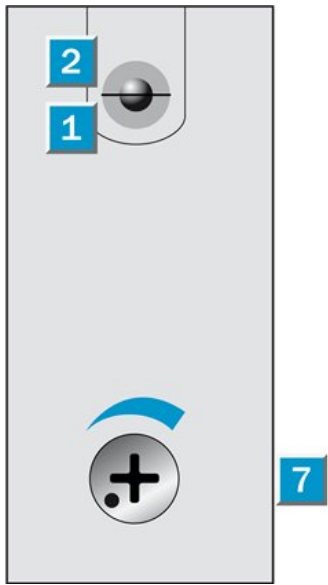
Rodzaj zabezpieczenia:	IP 67 IP 69K
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	≤ 5 Vss ²⁾
Pobór prądu:	≤ 55 mA ³⁾
Wyjście przełączające:	PNP, light switching NPN, Dark-switching, 0 V oder unbeschaltet, hellschaltend
Output current I _{max} :	100 mA
Czas reakcji:	≤ 200 μs ⁴⁾
Switching frequency:	2.500 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
Napięcie sygnału NPN HIGH/LOW:	U _v - < 2 V, U _v /0 V, ≤ 1,5 V
Napięcie sygnału PNP HIGH/LOW:	U _v - < 2 V, U _v /0 V, ≤ 1,5 V
UL File-No.:	UL No. NRKH.E181493, CDRH-Konform (0312012-00)

1) Limit values 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

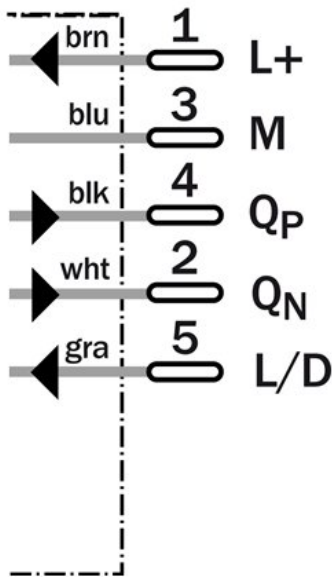


Einstell-Möglichkeiten

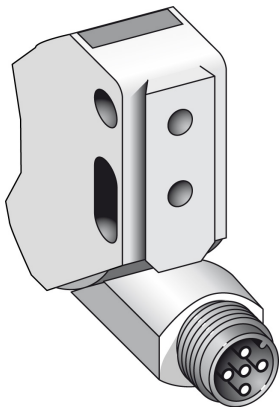


- |1| Operating indicator, green
- |2| LED reception indicator, yellow
- |7| Sensing distance adjustment

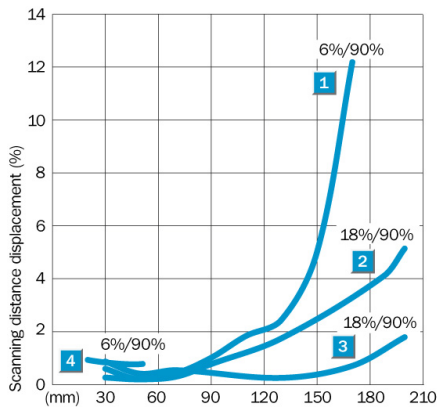
Connection diagram



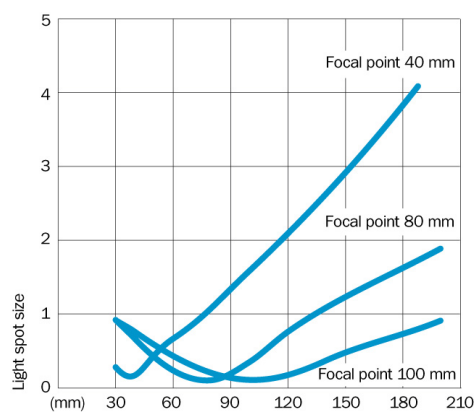
Connection type



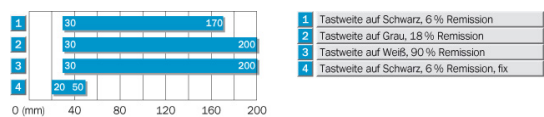
Characteristic curve



Light spot size



Sensing range diagram



- 1 Tastweite auf Schwarz, 6 % Remission
- 2 Tastweite auf Grau, 18 % Remission
- 3 Tastweite auf Weiß, 90 % Remission
- 4 Tastweite auf Schwarz, 6 % Remission, fix

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