



Photoelectric sensors

WL11G-2B2531



Nazwa modelu > [WL11G-2B2531](#)

Numer części > [1041390](#)



At a glance

- Retro-reflective for detection of transparent objects
- Robust sensors for industrial use
- PinPoint technology is precise and fast-reacting for optimal detection of a very wide range of objects
- Space-saving plastic housing in chemically, thermally or mechanically-resistant designs
- Dovetail mounting - mounting holes and oblong holes for a very wide range of securing options
- All-round, easily visible status LEDs
- Simple sensitivity control via potentiometer

Your benefits

- Superior chip technology for reliable detection of objects, from PET bottles to transparent film. Effective suppression of optical interference factors from the industrial environment
- PinPoint technology for bright, small and precise light spot enabling fast and simple sensor alignment
- Precision switching characteristics and high standard of detection quality guaranteeing universal detection of objects
- User-friendly sensors, simple commissioning and installation and easily visible status LEDs
- The WL11G is designed for industrial use: its robust housing, resistance to high-pressure cleaners, cleaning agents and disinfectants ensure less downtime
- Uniform housing, mounting and connection systems mean minimal time is spent on mounting and installation
- Easily installed with SICK accessories



Cechy

Wymiary (Szer. x Wys. x Głęb.):	15,6 mm x 48,5 mm x 42 mm
Maks. strefa działania:	0 m ... 4 m ¹⁾
Sensing range:	0 m ... 4 m ²⁾
Nadajnik światła:	LED ³⁾
Rodzaj światła:	widzialne światło czerwone
Długość fali:	640 nm
Nastawa:	adjustable
Nastawienie czułości:	Potencjometr, 11 obrotów
Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny, autocollimation
Light spot (distance):	25 mm (1,5 m)

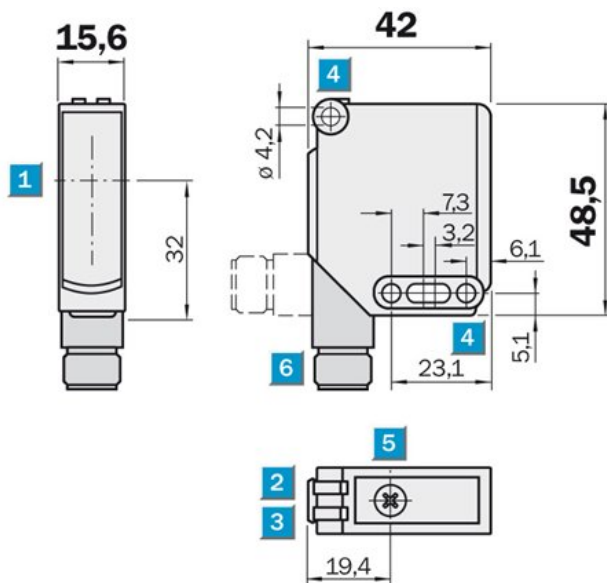
1) 2) PL80A 3) Average service life 100,000 h at Ta = +25 °C

Mechanika/elektronika

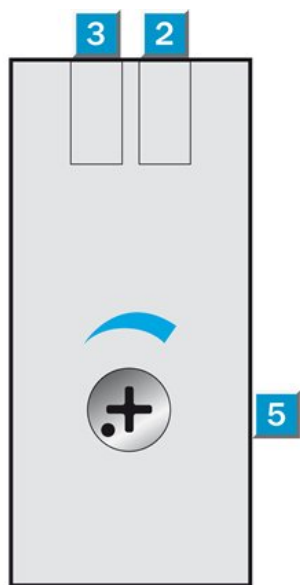
Rodzaj zabezpieczenia:	IP 66 IP 67 IP 69K
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	$\leq 5 \text{ Vss}$ ²⁾
Pobór prądu:	$\leq 30 \text{ mA}$ ³⁾
Wyjście przełączające:	PNP, przełączanie jasno/ciemno, wybierane NPN, 0 V oder unbeschaltet, hellschaltend
Output current I _{max} :	100 mA
Czas reakcji:	$\leq 330 \mu\text{s}$ ⁴⁾
Switching frequency:	1.500 Hz with light/dark ratio 1:1
Sposób przyłączenia:	Connector M12, 5-pin
Klasa ochronności:	II
Układ zabezpieczenia:::	A C D 5) 6) 7)
Ciężar:	120 g
Tworzywo, obudowa:	ABS
Tworzywo, układ optyczny:	PMMA
Ambient temperature, operation:	-30 °C ... 60 °C
Ambient temperature, storage:	-40 °C ... 75 °C
Filtr polaryzacyjny:	✓
Napięcie sygnału NPN HIGH/LOW:	approx. $U_v / < 3 \text{ V}$
Napięcie sygnału PNP HIGH/LOW:	$U_v - 3 \text{ V} / \text{ca. } 0 \text{ V}$
Tłumienie w drodze optycznej światła:	> 8 %
Emitancja:	do obiektów transparentnych
Kąt promieniowania:	Ca. 1,5 °

¹⁾ Limit values, operation in short-circuit protected network max. 8 A ²⁾ ³⁾ Without load ⁴⁾ Signal transit time with resistive load ⁵⁾ A = VS connections reverse-polarity protected ⁶⁾ C = interference suppression ⁷⁾ D = outputs overcurrent and short-circuit protected

Rysunek techniczny

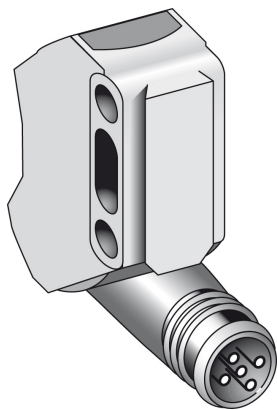


Możliwość dostosowania

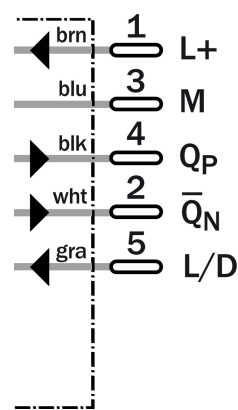


- [2] Status indicator LED, green: power on
- [3] Status indicator LED, yellow: Status of received light beam
- [5] Sensitivity adjustment

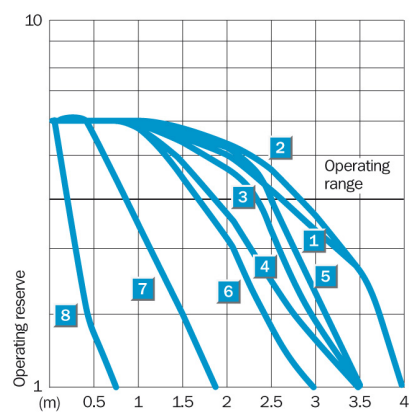
Typ połączenia



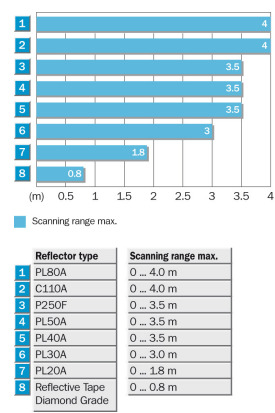
Schemat połączenia



Krzywa charakterystyki



Schemat zakresu pracy



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