

Fotoprzełączniki W12G, Fotoprzełącznik refleksyjny, autocollimation

WL12G-302431S51



Nazwa modelu > **WL12G-3O2431S51**

Numer części > **1043879**



Produkt może różnić się od ilustracji

At a glance

- Reliable detection of transparent objects
- Optional Continuous Threshold Adaption (CTA)
- Sensing range is adjustable via potentiometer or teach-in pushbutton
- Rugged housing for industrial use
- Highly visible red light spot for versatile detection of objects
- Quality monitoring thanks to IO-Link
- Key lock function, remote teach
- Diagnostics messages (contamination and short-circuit)

Your benefits

Reliable detection of transparent objects, including PET bottles and transparent film
PinPoint LED technology provides a bright, small and precise light spot that enables quick and easy sensor alignment

Precise switching characteristics and high-performance object detection provides increased productivity

High immunity to optical interference reduces false readings

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

Quick and easy threshold adjustment (depending on type)

Simple monitoring of detection quality

Key lock function and parameter download prevent incorrect setting



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny, autocollimation
Wymiary (Szer. x Wys. x Głęb.):	15,6 mm x 48,5 mm x 42 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	0 m ... 4 m ¹⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ²⁾
Długość fali:	640 nm
Kąt promieniowania:	Ca. 1,5 °
Nastawa:	Potencjometr, 5 obrotów
Średnica plamki świetlnej (odległość):	Ø 100 mm (3 m)

Continuous threshold adaption:

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¹⁾ PL80A ²⁾ Average service life of 100,000 h at $T_A = +25\text{ °C}$

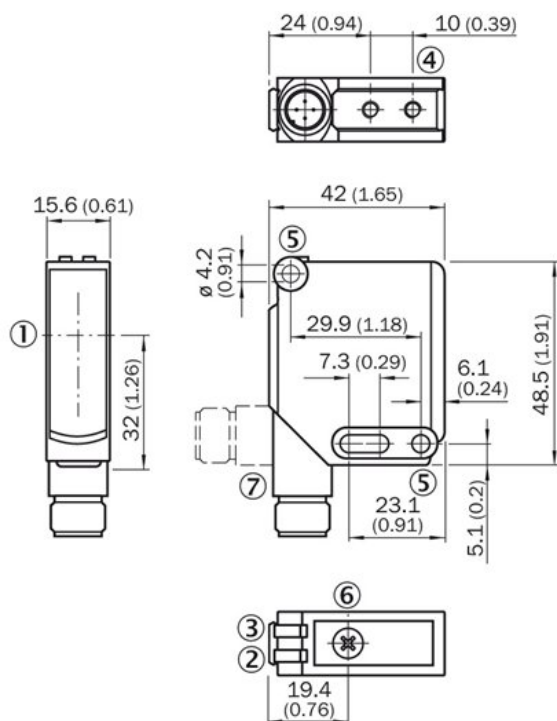
Mechanika/elektronika

Wyjście przełączające:	PNP
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane
Output current I _{max} :	100 mA
Czas reakcji:	$\leq 330\text{ }\mu\text{s}$ ¹⁾
Switching frequency:	$\pm 1.500\text{ Hz}$ ²⁾
Sposób przyłączenia:	Connector M12, 4-pin
Układ zabezpieczenia::	A, C, D ³⁾ ⁴⁾ ⁵⁾
Klasa ochrony:	II
Ciężar:	120 g
Filtr polaryzacyjny:	✓
Special device:	✓
Tworzywo, obudowa:	Metal
Rodzaj zabezpieczenia:	IP 66 IP 67 IP 69K
Emitancja:	Do obiektów transparentnych
Funkcje specjalne:	Pin assignment: 1 = V+ / 3 = 0 V / 4 = Q / 2 = Q
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

¹⁾ Signal transit time with resistive load ²⁾ With light/dark ratio 1:1 ³⁾ A = V_S connections reverse-polarity protected ⁴⁾ C = interference suppression ⁵⁾ D = outputs

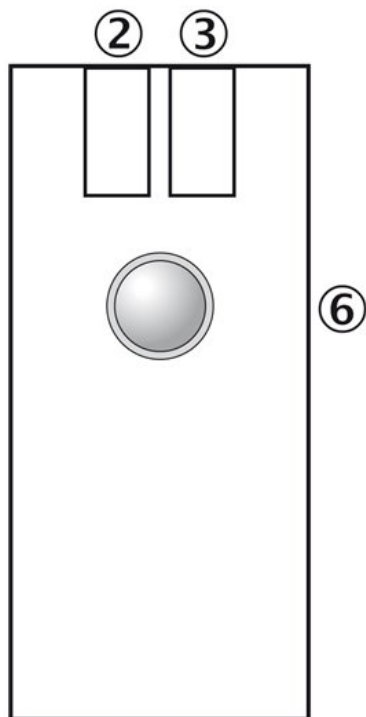
overcurrent and short-circuit protected

Dimensional drawing



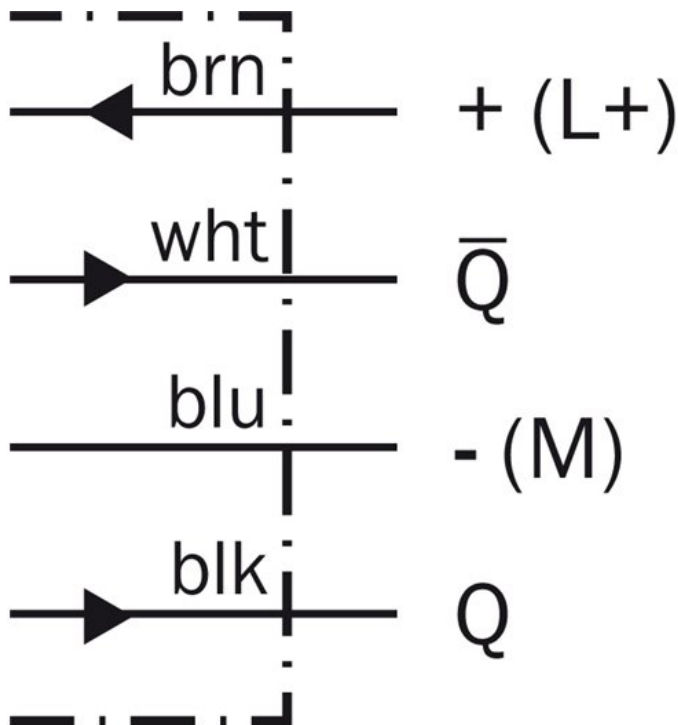
- [1] Optical axis
- [2] LED indicator yellow: Light received
- [3] Green LED indicator: supply voltage active
- [4] M4 threaded mounting hole, 4 mm deep
- [5] Mounting hole, $\varnothing$ 4.2 mm
- [6] Sensitivity adjustment: poti
- [7] Connection

Adjustments possible

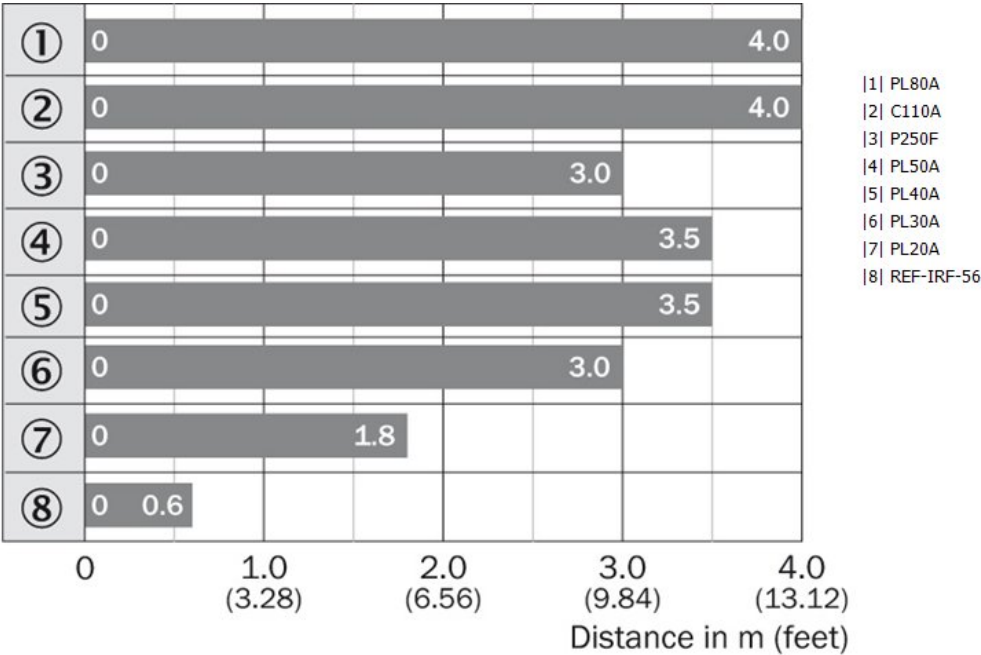


- [2] LED indicator yellow: Light received
- [3] LED indicator, green: power on, teach-in mode I, LED indicator, blue: teach-in mode II
- [6] Single teach button, function 1: teach-in sensitivity on reflector, function 2: change operation/teach-in mode

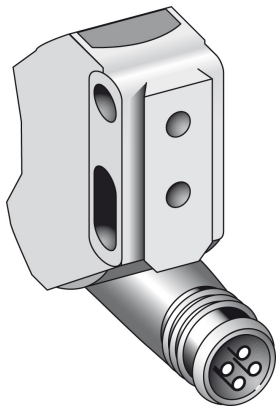
Connection diagram



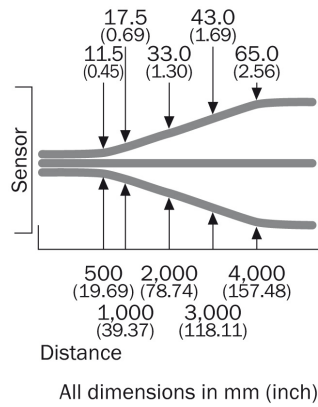
Sensing range diagram



Connection type



Light spot size



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