

Fotoprzełączniki W12-3, Fotoprzełącznik refleksyjny, autocollimation

WL12-3N2451



Nazwa modelu > **WL12-3N2451**

Numer części > **1041450**



Produkt może różnić się od ilustracji

At a glance

- Retro-reflective with autocollimation principle
- Rugged housing designed to withstands harsh environments
- PinPoint LED technology with highly visible light spot
- Rugged die-cast zinc housing, optional Teflon® coating
- Dovetail mounting - mounting holes and oblong holes
- Highly visible status LEDs
- Sensing range adjustment via potentiometer

Your benefits

High immunity to ambient light and crosstalk ensures fewer false readings and less downtime

Quick and easy setup due to highly visible PinPoint LED light spot

Highly visible status LEDs simplify sensitivity adjustments and reduce installation time

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

Increased reliability in harsh wash down environments

Easy installation using SICK accessories



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 ... 2 m ¹⁾
Sensing range:	0 m ... 1 m ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ³⁾
Długość fali:	640 nm
Kąt promieniowania:	Ca. 5 °
Nastawa:	Potencjometr, 5 obrotów
Średnica plamki świetlnej (odległość):	Ø 2 mm (90 mm)

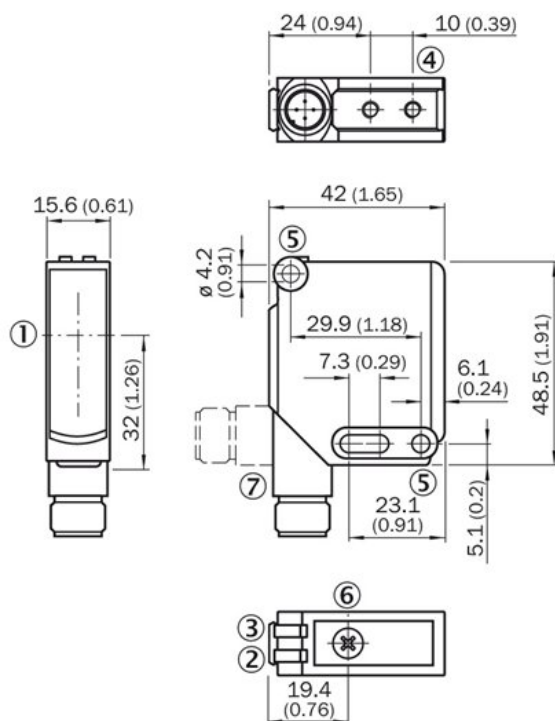
^{1) 2)} PL80A ³⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Current consumption:	≤ 40 mA ²⁾
Wyjście przełączające:	NPN
Tryb przełączania:	Komplementarne
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane
Napięcie sygnału NPN HIGH/LOW:	Approx. VS / < 2.5 V
Output current I _{max} :	100 mA
Czas reakcji:	≤ 330 μs ³⁾
Switching frequency:	1.500 Hz ⁴⁾
Sposób przyłączenia:	Connector M12, 4-pin
Układ zabezpieczenia::	A, C, D ^{5) 6) 7)}
Klasa ochronności:	II
Ciężar:	120 g
Filtr polaryzacyjny:	✓
Special device:	-
Tworzywo, obudowa:	Metal
Rodzaj zabezpieczenia:	IP 66 IP 67 IP 69K
Emitancja:	Focused optics
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

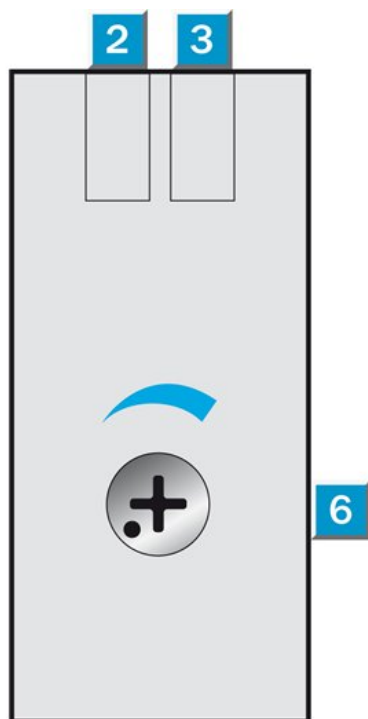
¹⁾ Limit values, operation in short-circuit protected network max. 8 A ²⁾ Bez obciążenia ³⁾ Signal transit time with resistive load ⁴⁾ With light/dark ratio 1:1 ⁵⁾ A = V_S
connections reverse-polarity protected ⁶⁾ C = interference suppression ⁷⁾ D = outputs overcurrent and short-circuit protected

Dimensional drawing



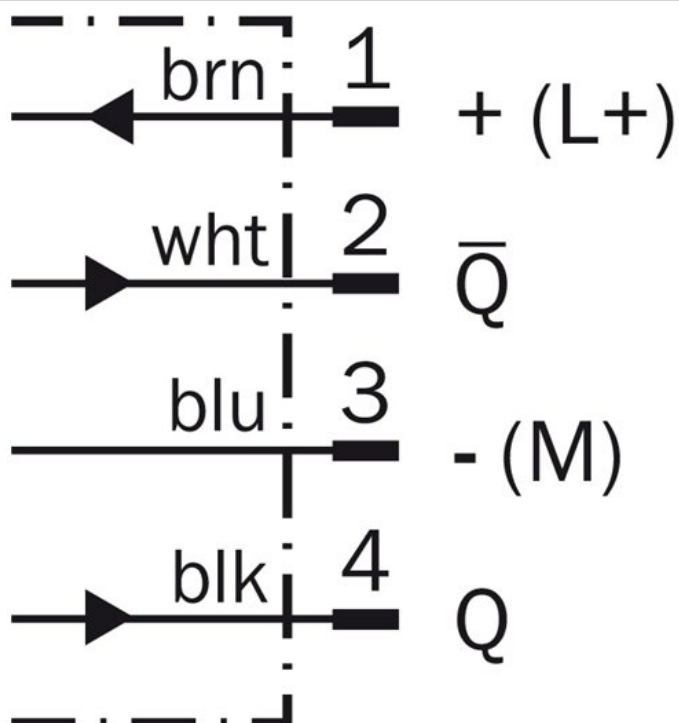
- [1] Optical axis
- [2] LED indicator yellow: Light received
- [3] Green LED indicator: supply voltage active
- [4] M4 threaded mounting hole, 4 mm deep
- [5] Mounting hole, Ø 4.2 mm
- [6] Sensitivity adjustment: poti
- [7] Connection

Adjustments possible

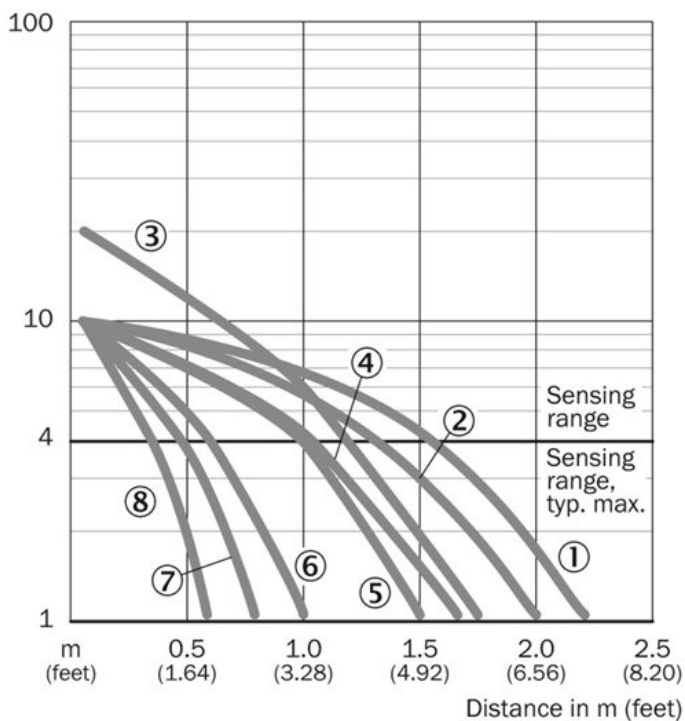


- [2] LED indicator yellow: Light received
- [3] Green LED indicator: supply voltage active
- [6] Sensitivity adjustment: poti

Connection diagram

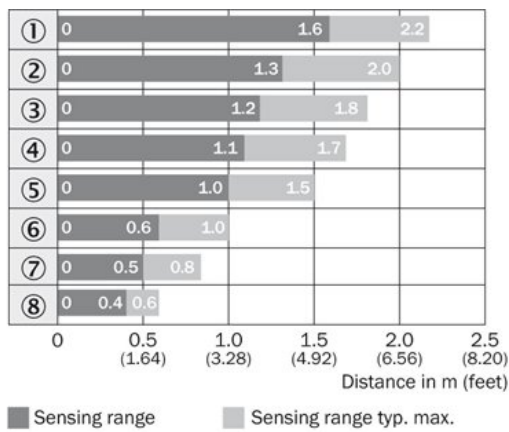


Characteristic curve



- [1] Reflector type C110A
- [2] Reflector type PL80A
- [3] Reflector type P205
- [4] Reflector type PL50A
- [5] Reflector type PL40A
- [6] Reflector type PL30A
- [7] Reflector type PL20A
- [8] Reflector type DG/IRF6000

Sensing range diagram

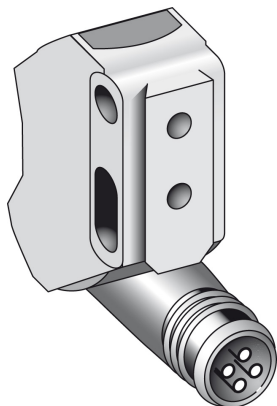


- |1| C110A
- |2| PL80A
- |3| P250F
- |4| PL50A
- |5| PL40A
- |6| C30A
- |7| PL20A
- |8| Reflective tape Diamond Grade

Reflector type

- ① C110A
- ② PL80A
- ③ P250F
- ④ PL50A
- ⑤ PL40A
- ⑥ C30A
- ⑦ P20A
- ⑧ Reflective tape Diamond Grade

Connection type



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