



Fotoprzełączniki W4-3, Fotoprzełącznik refleksyjny, Standard optics

WL4-3N3031S02



Nazwa modelu > **WL4-3N3031S02**

Numer części > **1042990**



Produkt może różnić się od ilustracji

At a glance

- Fixed setting or setting via teach-in pushbutton
- PinPoint LED technology for highly visible, intense light spot
- Sensing range from 0.01 - 4 m
- Rugged plastic housing with M3 threaded metal inserts

Your benefits

- The PinPoint LED's sharply defined, intense light spot simplifies alignment
- Low-cost machine integration due to small dimensions that enable mounting in areas with tight space restrictions
- Rugged mounting system with M3 threaded metal inserts reduces maintenance costs due to a long service life



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzeźnik refleksyjny, Standard optics
Wymiary (Szer. x Wys. x Głęb.):	16 mm x 39,5 mm x 12 mm
Housing design (light emission):	Prostopadłościenna, Flat
Maks. strefa działania:	0,01 m ... 4,5 m ¹⁾
Sensing range:	0,02 m ... 3,5 m ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	Pin Point LED ³⁾
Długość fali:	650 nm
Nastawa:	Potencjometr, 5 obrotów
Średnica plamki świetlnej (odległość):	Ø 75 mm (1,5 m)

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

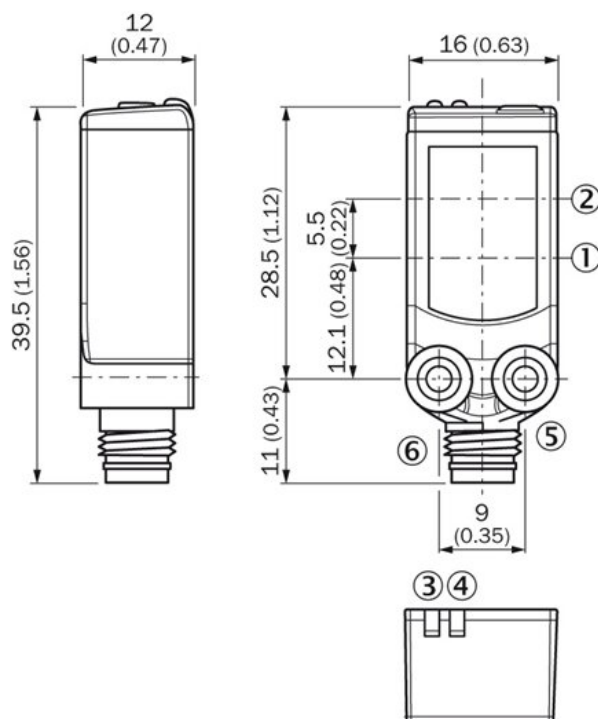
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	< 5 Vss ²⁾
Pobór prądu:	≤ 20 mA ³⁾
Wyjście przełączające:	NPN
Tryb przełączania:	Przełączanie na jasnym
Output current I _{max} ..:	≤ 100 mA
Czas reakcji:	< 0,5 ms ⁴⁾
Switching frequency:	1.000 Hz ⁵⁾
Układ zabezpieczenia:::	A, C, D ^{6) 7) 8)}

Klasa ochrony:	III
Ciężar:	30 g
Filtr polaryzacyjny:	✓
Special device:	-
Tworzywo, obudowa:	ABS, Tworzywo sztuczne
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 67 IP 66
Funkcje specjalne:	Adjustable OFF delay
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

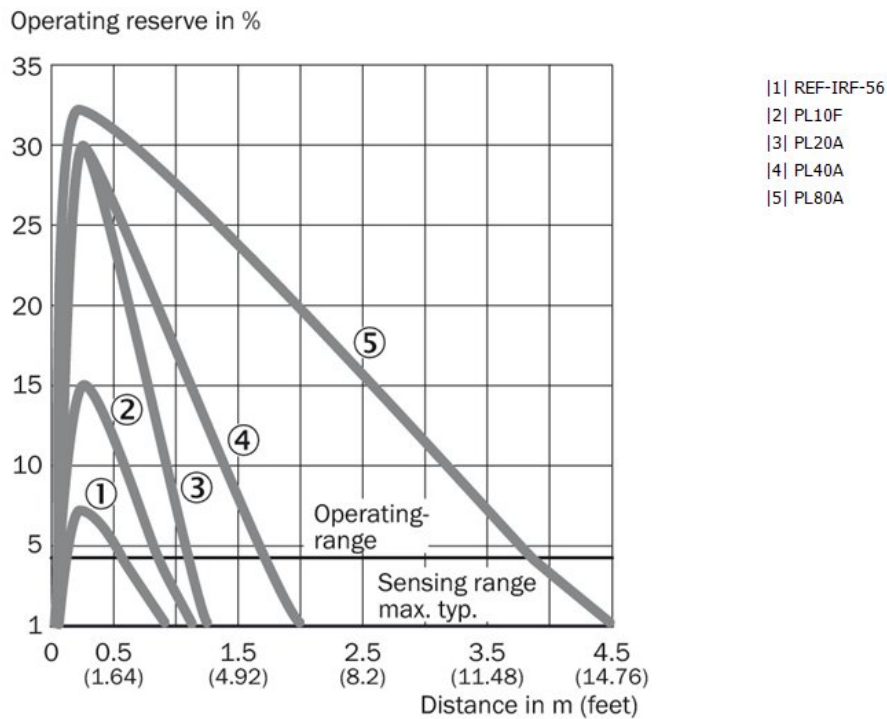
1) Limit values 2) May not exceed or fall short of V_S tolerances 3) Bez obciążenia 4) Signal transit time with resistive load 5) With light/dark ratio 1:1 6) $A = V_S$
connections reverse-polarity protected 7) C = interference suppression 8) D = outputs overcurrent and short-circuit protected

Dimensional drawing

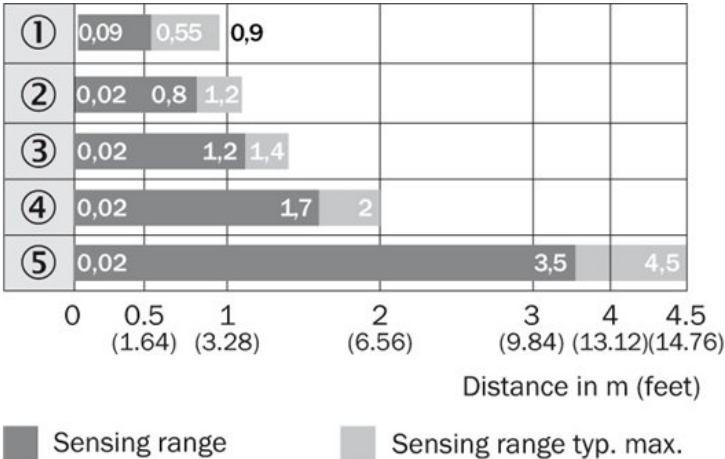


- |1| Center of optical axis, sender
- |2| Center of optical axis, receiver
- |3| LED indicator orange: status of received light beam
- |4| Status indicator LED green: power on
- |5| Threaded mounting hole M3
- |6| Connection

Characteristic curve



Sensing range diagram



- 1| REF-IRF-56
- 2| PL10F
- 3| PL20A
- 4| PL40A
- 5| PL80A

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