



Fotoprzełączniki W9-3, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB9-3N2461



Nazwa modelu > **WTB9-3N2461**

Numer części > **1049053**



Produkt może różnić się od ilustracji

At a glance

- High-performance proximity sensing in ultra-rugged VISTAL™ housing
- PinPoint LED for highly visible and precise light spot
- Two emitter LEDs for best-in-class background suppression
- Variable mounting with M3 or M4 hole pattern
- Wide range of connection options

Your benefits

- Rugged VISTAL™ housing provides reliable installation and operation
- Reliable object detection in all situations using best-in-class technology
- Quick and easy alignment with reliable object detection due to the highly visible PinPoint light spot
- M3 slotted hole mounting for multiple mounting possibilities
- One housing with a wide range of options makes machine integration easy
- Variety of accessories for quick and easy mounting



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Wymiary (Szer. x Wys. x Głęb.):	12,2 mm x 52,2 mm x 23,6 mm
Housing design (light emission):	Prostopadłościenna
Mounting hole:	M3
Maks. strefa działania:	20 mm ... 350 mm ¹⁾
Sensing range:	20 mm ... 200 mm 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 4,5 mm (75 mm)

¹⁾ Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ²⁾ Obiekt odbijający 6% światła (standardowy biały zgodnie z normą DIN 5033) ³⁾

Average service life of 100,000 h at T_A = +25 °C

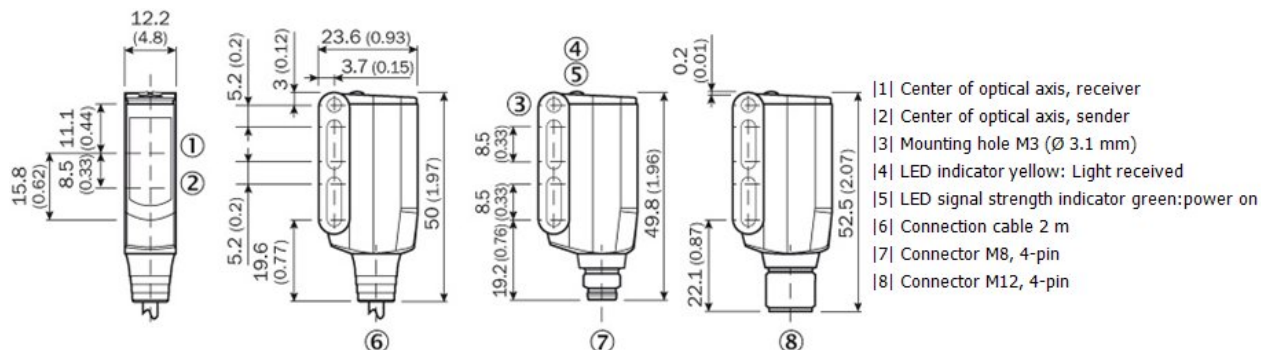
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	< 5 Vss ²⁾
Current consumption:	≤ 30 mA ³⁾
Wyjście przełączające:	NPN ⁴⁾

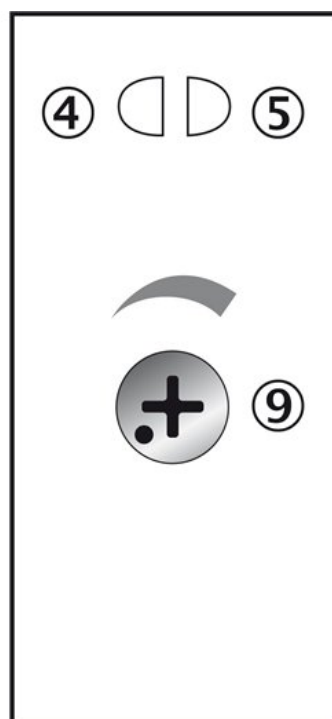
Tryb przełączania:	Komplementarne
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane ⁵⁾
Output current I _{max} :	≤ 100 mA ⁶⁾
Czas reakcji:	< 0,333 ms ⁷⁾
Switching frequency:	1.500 Hz ⁸⁾
Sposób przyłączenia:	Connector M12, 4-pin
Układ zabezpieczenia:::	A, B, C ⁹⁾ ¹⁰⁾ ¹¹⁾
Klasa ochronności:	III
Ciężar:	13 g
Filtr polaryzacyjny:	-
Tworzywo, obudowa:	Tworzywo sztuczne, VISTAL
Tworzywo, układ optyczny:	PMMA
Enclosure rating:	IP 66 IP 67 IP 69K
Ambient operating temperature:	-40 °C ... +60 °C
Ambient storage temperature:	-40 °C ... +75 °C
UL File No.:	NRKH.E181493

¹⁾ Limit values, operation in short-circuit protected network max. 8 A ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Bez obciążenia ⁴⁾ ⁵⁾ Q = light-switching ⁶⁾ As
of Tu 50 °C, a max. load current I_{max} = 50 mA is permitted ⁷⁾ Signal transit time with resistive load ⁸⁾ V_S With light/dark ratio 1:1 ⁹⁾ A = V_S connections reverse-polarity
protected ¹⁰⁾ B = inputs and output reverse-polarity protected ¹¹⁾ C = interference suppression

Dimensional drawing



Adjustments possible

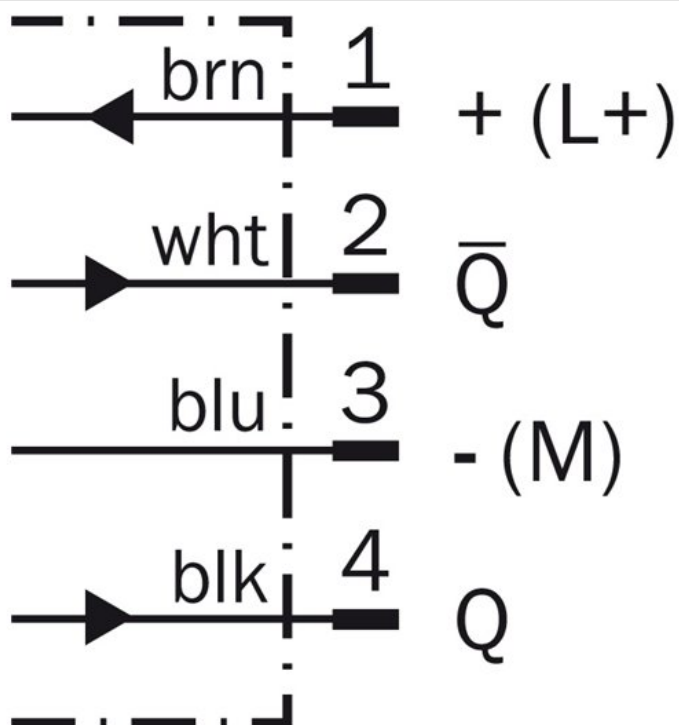


|4| LED indicator yellow: Light received

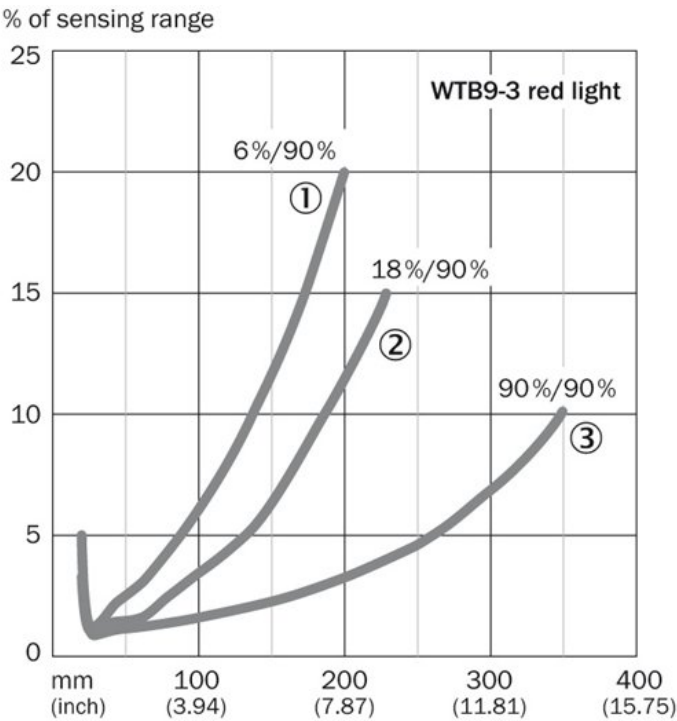
|5| LED signal strength indicator green: power on

|9| Sensing range adjustment

Connection diagram

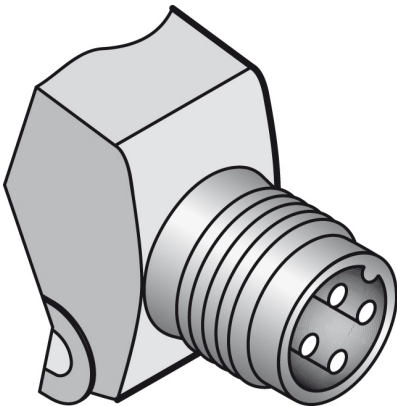


Characteristic curve

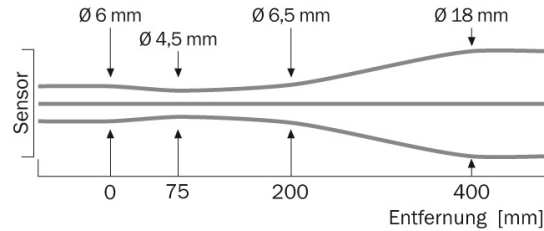


- |1| Sensing range on black, 6 % remission
- |2| Sensing range on grey, 18 % remission
- |3| Sensing range on white, 90 % remission

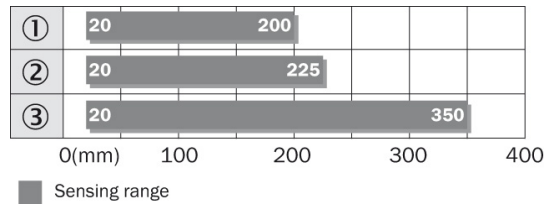
Connection type



Light spot size



Sensing range diagram



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