



Fotoprzełączniki W4S-3, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB4S-3P3462



Nazwa modelu > **WTB4S-3P3462**

Numer części > **1051374**



Produkt może różnić się od ilustracji

At a glance

- Best background suppression in its class
- Setting either via teach-in pushbutton, 5-turn potentiometer cable or by IO-Link
- All models with PinPoint LED technology
- Versions with laser-like LED light spots
- High immunity to ambient light

Your benefits

- Less downtime due to reliable detection of all types of objects
- Laser-like light spot provides quick and easy alignment
- Smart machine design makes it possible to mount the sensor in the tightest spaces
- Reliable object detection due to best-in-class background suppression and high immunity to ambient light



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Wymiary (Szer. x Wys. x Głęb.):	12,2 mm x 41,8 mm x 17,3 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	4 mm ... 180 mm ¹⁾
Sensing range:	10 mm ... 180 mm ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	Pin Point LED ³⁾
Długość fali:	650 nm
Nastawa:	Single teach-in button
Średnica plamki świetlnej (odległość):	Ø 6,5 mm (150 mm)

^{1) 2)} Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ³⁾ Average service life of 100,000 h at T_A = +25 °C

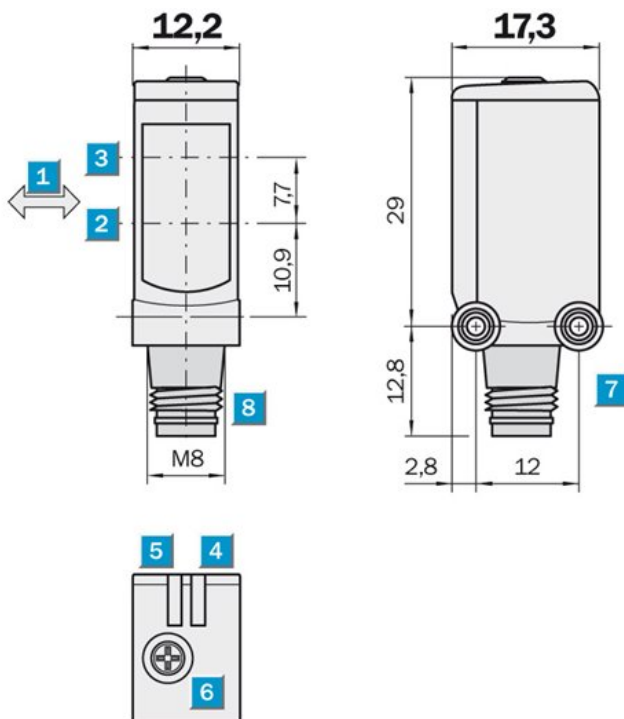
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe::	< 5 Vss ^{2) 3)}
Pobór prądu:	≤ 20 mA ⁴⁾
Wyjście przełączające:	PNP
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane
Output current I _{max} ::	≤ 100 mA
Czas reakcji:	< 0,5 ms ⁵⁾

Switching frequency:	$\pm 1.000 \text{ Hz}$ ⁶⁾
Sposób przyłączenia:	Cable with connector M12, 4-pin, 150 mm ⁷⁾
Cable material:	PVC
Conductor cross-section:	0,14 mm ²
Cable diameter:	Ø 3,4 mm
Układ zabezpieczenia:::	A, C, D ⁸⁾ ⁹⁾ ¹⁰⁾
Klasa ochronności:	III
Ciężar:	30 g
Tworzywo, obudowa:	ABS, Tworzywo sztuczne
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 67 IP 66
Ambient operating temperature:	-40 °C ... +60 °C
Ambient storage temperature:	-40 °C ... +75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

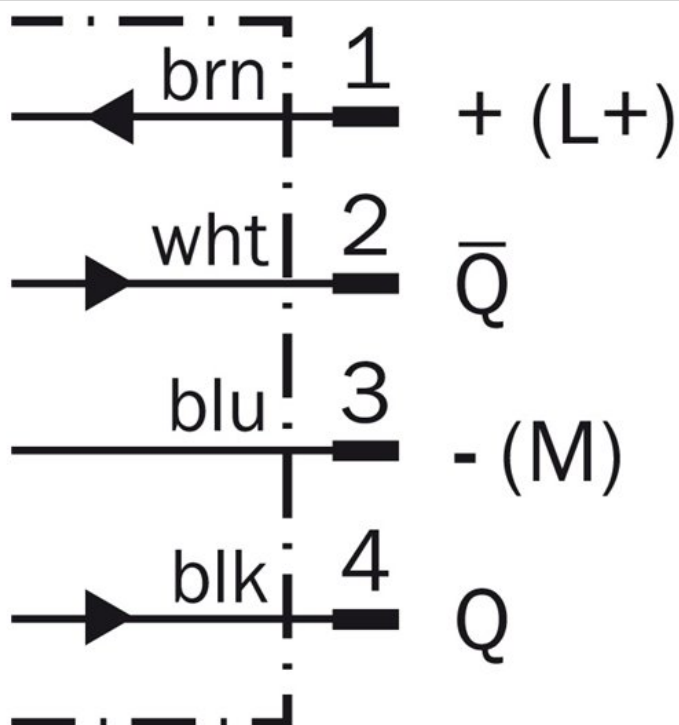
1) Limit values 2) 3) May not exceed or fall short of V_S tolerances 4) Bez obciążenia 5) Signal transit time with resistive load 6) With light/dark ratio 1:1 7) Do not bend below 0 °C 8) $A = V_S$ connections reverse-polarity protected 9) C = interference suppression 10) D = outputs overcurrent and short-circuit protected

Rysunek techniczny

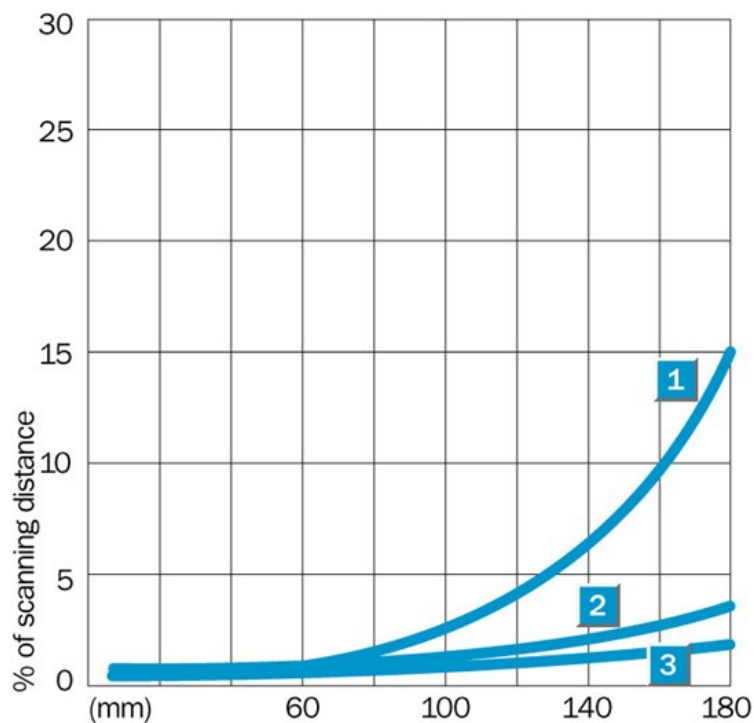


- [1] Standard direction of the material being detected
- [2] Optical axis receiver
- [3] Optical axis sender
- [4] Status indicator LED green: power on
- [5] Status indicator LED, yellow: Status of received light beam
- [6] Potentiometer
- [7] Threaded mounting hole M3
- [8] Connection

Connection diagram



Characteristic curve

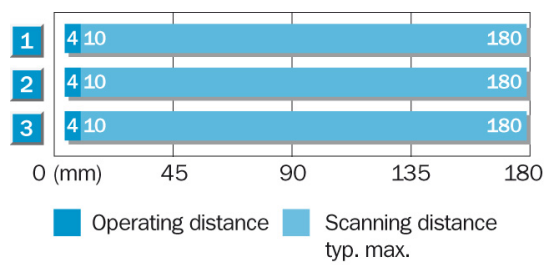


- [1] Sensing range on black, 6 % remission
- [2] Sensing range on grey, 18 % remission
- [3] Sensing range on white, 90 % remission

Connection type



Sensing range diagram



1	Scanning distance on black, 6 % remission
2	Scanning distance on grey, 18 % remission
3	Scanning distance on white, 90 % remission

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