



Fotoprzełączniki W4S-3, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB4S-3P3432S05



Nazwa modelu > **WTB4S-3P3432S05**

Numer części > **1051765**



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:	3 mm ... 280 mm ¹⁾
Sensing range:	3 mm ... 280 mm ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	Pin Point LED ³⁾
Długość fali:	650 nm
Teach-in:	Single teach-in button
Nastawa:	Teach-in
Średnica plamki świetlnej (odległość):	Ø 2 mm (100 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

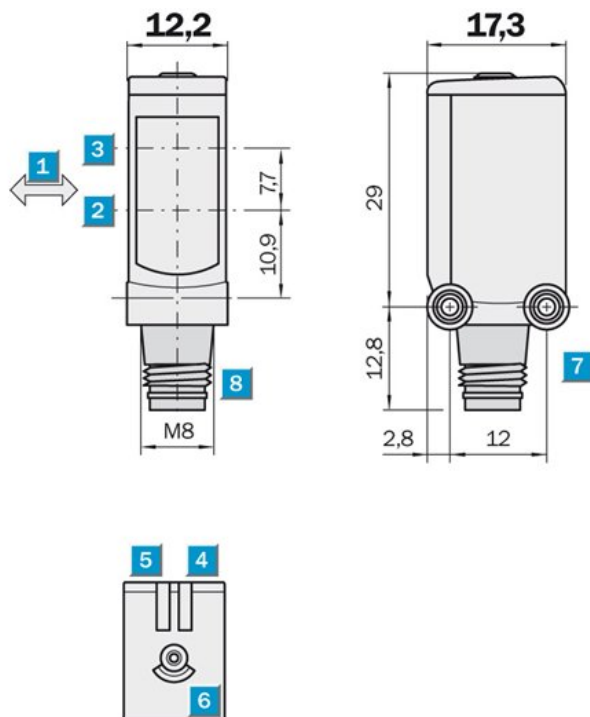
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	< 5 Vss ²⁾
Current consumption:	≤ 20 mA ³⁾
Wyjście przełączające:	PNP
Tryb przełączania:	Komplementarne
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane

Output current I _{max} ..:	≤ 100 mA
Czas reakcji:	< 0,5 ms ⁴⁾
Switching frequency:	1.000 Hz ⁵⁾
Sposób przyłączenia:	Cable with connector M12, 4-pin, 150 mm ⁶⁾
Cable material:	PVC
Conductor cross-section:	0,14 mm ²
Cable diameter:	Ø 3,4 mm
Układ zabezpieczenia:::	A, C, D ⁷⁾ ⁸⁾ ⁹⁾
Klasa ochronności:	III
Special device:	✓
Tworzywo, obudowa:	ABS, Tworzywo sztuczne
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 67
Funkcje specjalne:	Small light spot diameter of 2 mm in 100 mm distance
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

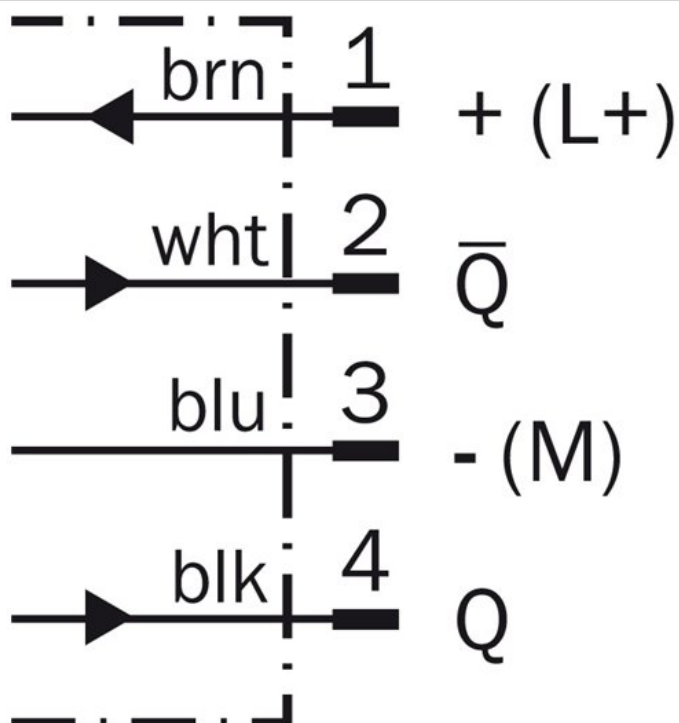
¹⁾ Limit values ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Bez obciążenia ⁴⁾ Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ Do not bend below 0 °C ⁷⁾ A = V_S connections reverse-polarity protected ⁸⁾ C = interference suppression ⁹⁾ D = outputs overcurrent and short-circuit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

Dimensional drawing

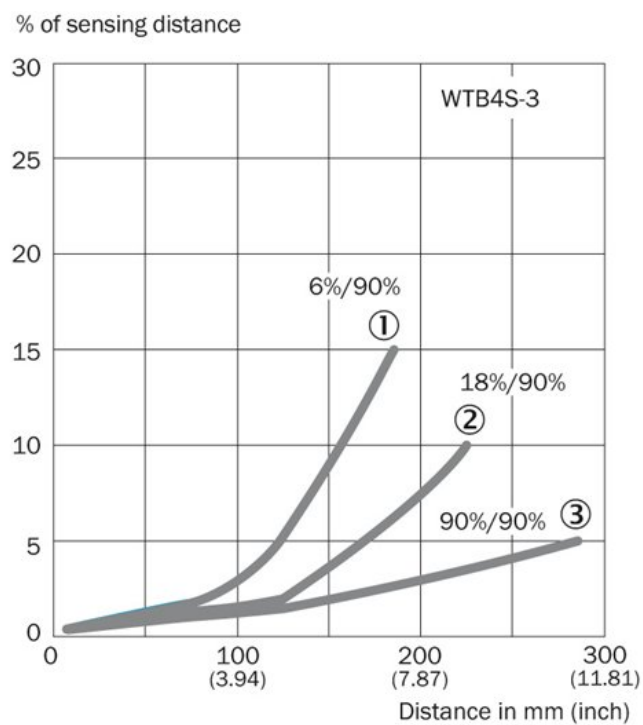


- [1] Standard direction of the material being scanned
- [2] Optical axis receiver
- [3] Optical axis sender
- [4] Status indicator LED green: power on
- [5] Status indicator LED, yellow: Status of received light beam
- [6] Teach-in button
- [7] Threaded mounting hole M3
- [8] Connection

Connection diagram



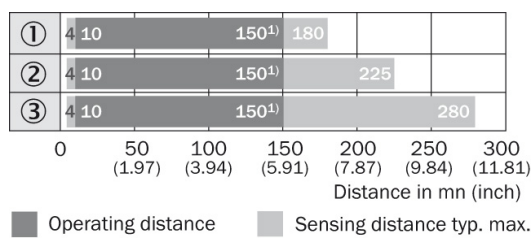
Characteristic curve



Connection type



Sensing range diagram



- ① Sensing distance on black, 6 % remission
- ② Sensing distance on grey, 18 % remission
- ③ Sensing distance on whitw, 90 % remission

¹⁾Due to the focus of the light spot at 100 mm (3.94 inch)

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