



Fotoprzełączniki W4S-3 Inox Hygiene, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB4S-3P3204HS01



Nazwa modelu > **WTB4S-3P3204HS01**

Numer części > **1048532**



Produkt może różnić się od ilustracji

At a glance

- Hygienic designed stainless steel housing and accessories (316L/1.4404)
- Hygienic mounting using M12-adapter thread or D12-adapter shaft
- IP 66, IP 67, IP 68 and IP 69K enclosure rating and Ecolab certified
- Resistant to a variety of common cleaning and disinfection agents
- Best background and extraneous light suppression in its class with OES3 technology and two emitter LED's
- Stainless steel teach-in pushbutton with a metal membrane
- Flexible sensing ranges and hysteresis settings
- Key lock function, remote teach, quality monitoring

Your benefits

- Smooth hygienic housing and accessories with no grooves or crevices eliminates the potential for bacteria to grow, providing a more hygienic solution.
- Long service life in harsh conditions ensures less downtime and fewer replacement costs
- OES3 technology and special optical design ensures reliable detection of objects at an extended range which ensures less machine downtime caused by faulty switching
- Easy adjustment via a stainless steel metal membrane teach-in pushbutton
- Quick and easy format adjustment
- Easy monitoring of sensor status
- Key lock function and parameter download prevent incorrect settings
- Simple sensor cloning



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Wymiary (Szer. x Wys. x Głęb.):	15,25 mm x 49,2 mm x 22,15 mm
Housing design:	Hygiene
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	3 mm ... 280 mm ¹⁾
Sensing range:	10 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 cable ⁴⁾

Średnica plamki świetlnej (odległość): Ø 2,5 mm (100 mm)

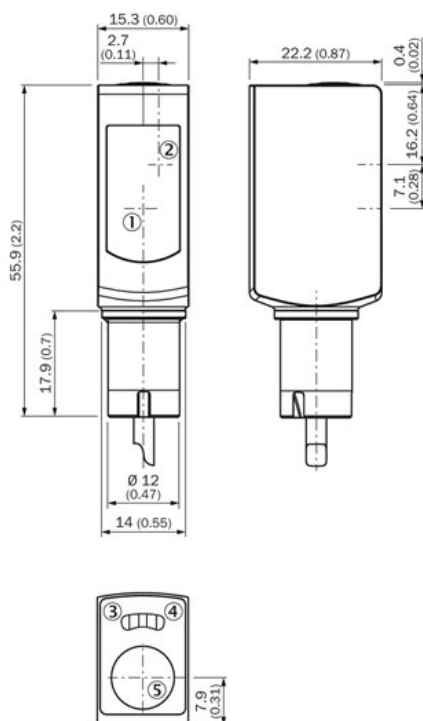
1) 2) Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) 3) Average service life of 100,000 h at T_A = +25 °C 4) External teach-in: pulse > 2 s with voltage U_v with PNP and M with NPN

Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Current consumption:	≤ 30 mA ²⁾
Wyjście przełączające:	PNP
Tryb przełączania:	Przełączanie na jasnym
Output current I _{max} :	≤ 100 mA
Czas reakcji:	< 0,5 ms ³⁾
Switching frequency:	1.000 Hz ⁴⁾
Sposób przyłączenia:	Cable with connector M8, 4-pin, 150 mm ⁵⁾
Cable material:	PVC
Układ zabezpieczenia:::	A B 6) 7) 8) C
Klasa ochrony:	III
Ciężar:	50 g
Tworzywo, obudowa:	Stainless steel, Stainless steel 316L
Enclosure rating:	IP 66 IP 67 IP 68 IP 69K
Emitancja:	D12 adapter shaft
Funkcje specjalne:	Light spot diameter of 2.5 mm in 150 mm distance, Reduced sensing range of 280 mm
Ambient operating temperature:	-30 °C ... 60 °C, -30 °C ... 70 °C ⁹⁾
Ambient storage temperature:	-30 °C ... 75 °C
UL File No.:	FDA, UL No. NRKH.E181493 & cUL No. NRKH7.E181493

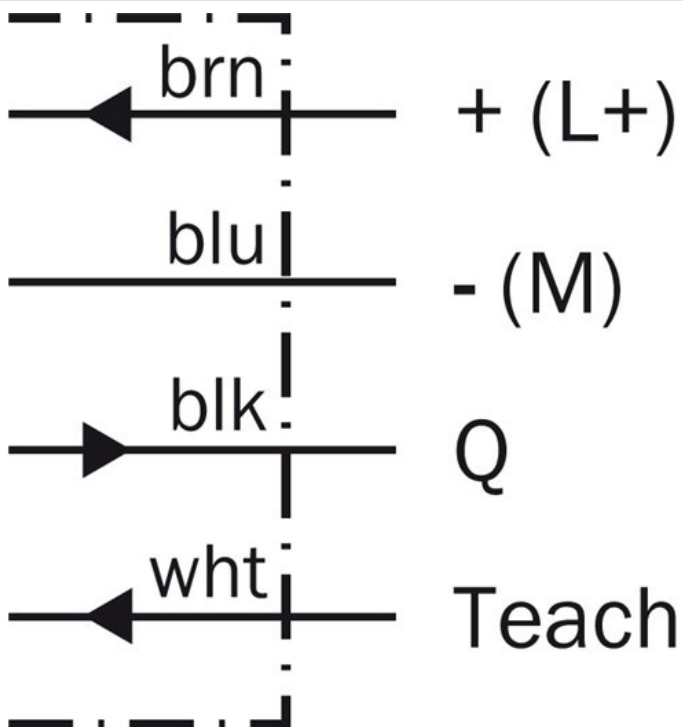
1) Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A ²⁾ Bez obciążenia ³⁾ Signal transit time with resistive load ⁴⁾ With light/dark ratio 1:1 ⁵⁾ Do not bend below 0 °C ⁶⁾ A = V_S connections reverse-polarity protected ⁷⁾ B = inputs and output reverse-polarity protected ⁸⁾ C = interference suppression ⁹⁾ At UV ≤ 24 V and IA < 30 mA

Dimensional drawing

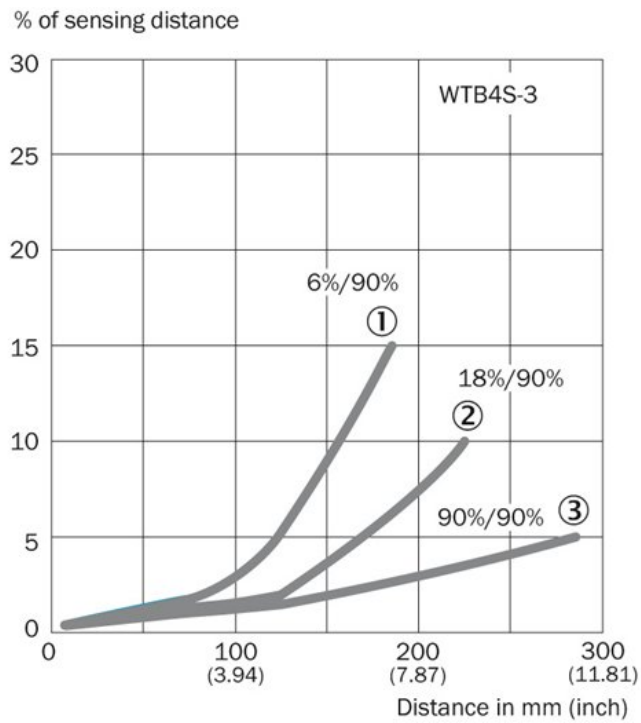


- [1] Center of optical axis, sender
- [2] Center of optical axis, receiver
- [3] Status indicator LED,
yellow: Status of received light beam
- [4] Status indicator LED green: power on
- [5] single teach-in button

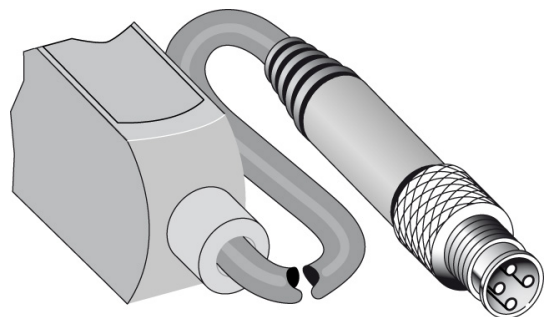
Connection diagram



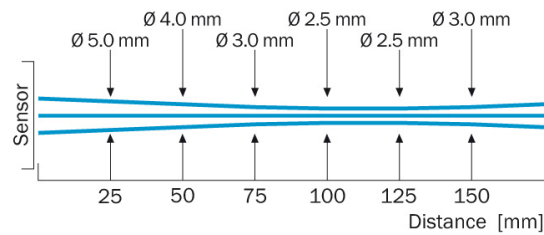
Characteristic curve



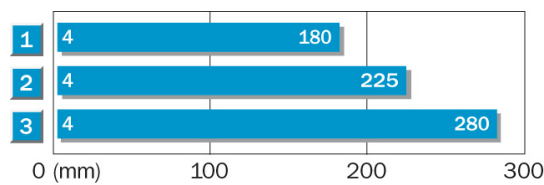
Connection type



Light spot size



Sensing range diagram



1	Scanning range on black, 6 % remission
2	Scanning range on gray, 18 % remission
3	Scanning range on white, 90 % remission

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