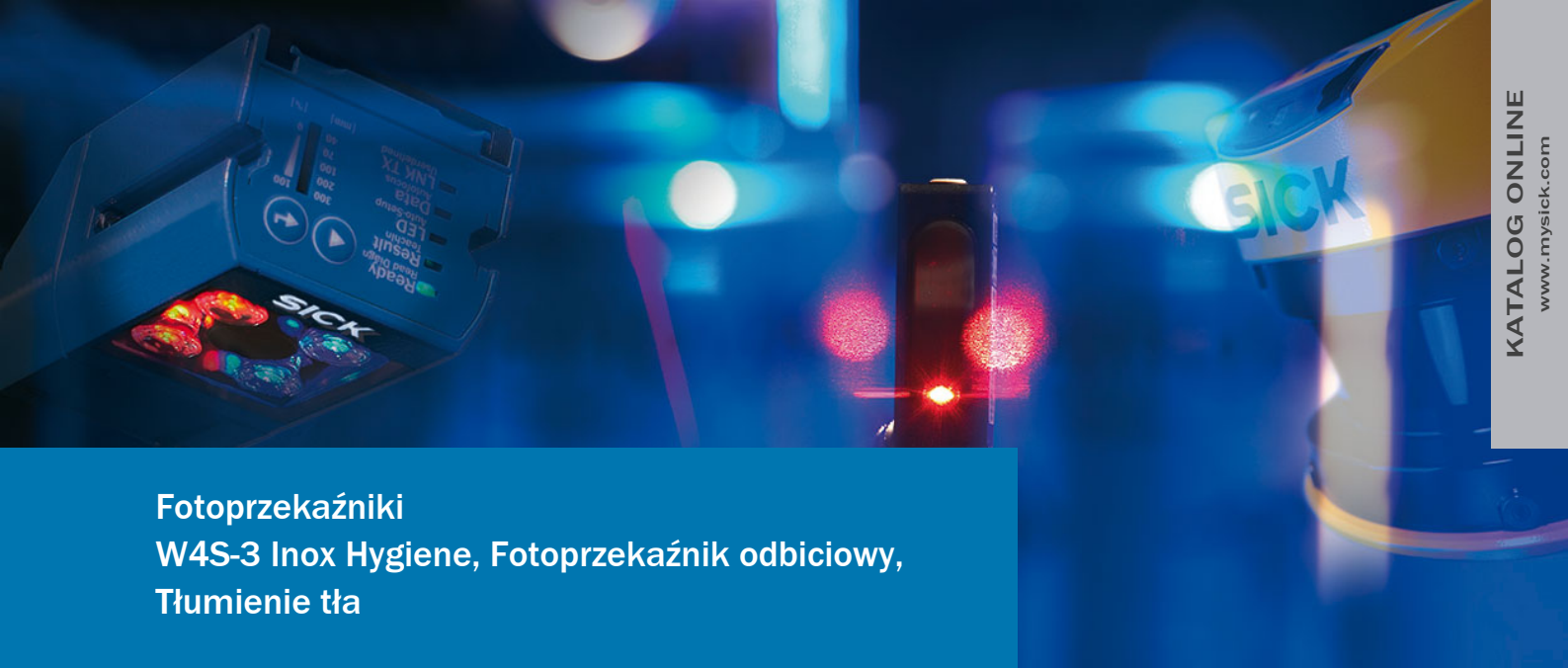




Fotoprzełączniki W4S-3 Inox Hygiene, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB4S-3N1135H



Nazwa modelu > **WTB4S-3N1135H**

Numer części > **1048101**



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 48,6 mm x 22,15 mm
Housing design:	Hygiene
Housing design (light emission):	Prostopadłościenna, Slim
Maks. strefa działania:	3 mm ... 120 mm ¹⁾
Sensing range:	10 mm ... 120 mm
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	Pin Point LED ²⁾
Długość fali:	650 nm
Nastawa:	Głębokość
Średnica plamki świetlnej (odległość):	Ø 2,5 mm (50 mm)

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

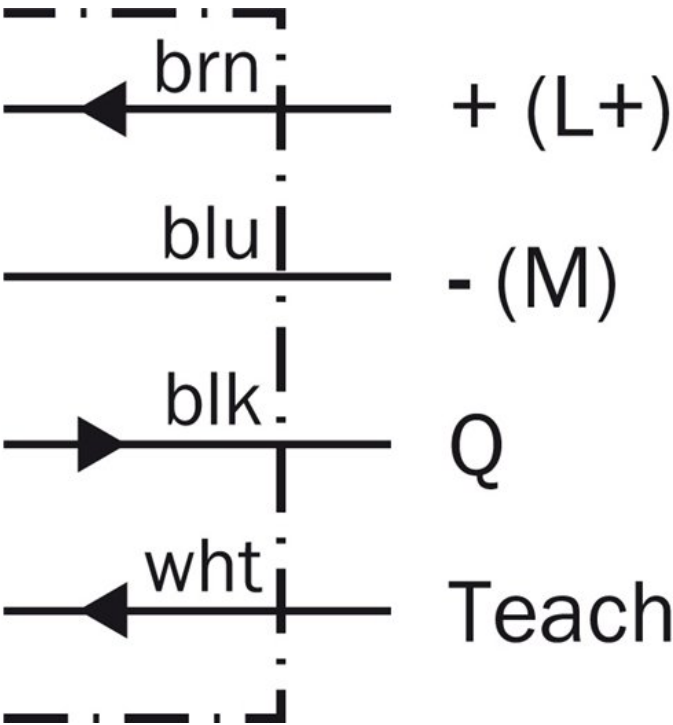
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	< 5 Vss ²⁾
Pobór prądu:	≤ 30 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⁾
Sposób przyłączenia:	Cable, 4-wire, 2 m ⁶⁾
Cable material:	PVC
Przekrój przewodu:	0,14 mm ²
Układ zabezpieczenia:::	A B 7) 8) 9) C
Klasa ochronności:	III
Ciężar:	80 g
Tworzywo, obudowa:	Stainless steel, Stainless steel 316L
Rodzaj zabezpieczenia:	IP 66 IP 67 IP 68 IP 69K
Ambient operating temperature:	-30 °C ... 60 °C, -30 °C ... 70 °C ¹⁰⁾
Ambient storage temperature:	-30 °C ... 75 °C
UL File No.:	FDA, UL No. NRKH.E181493 & cUL No. NRKH7.E181493

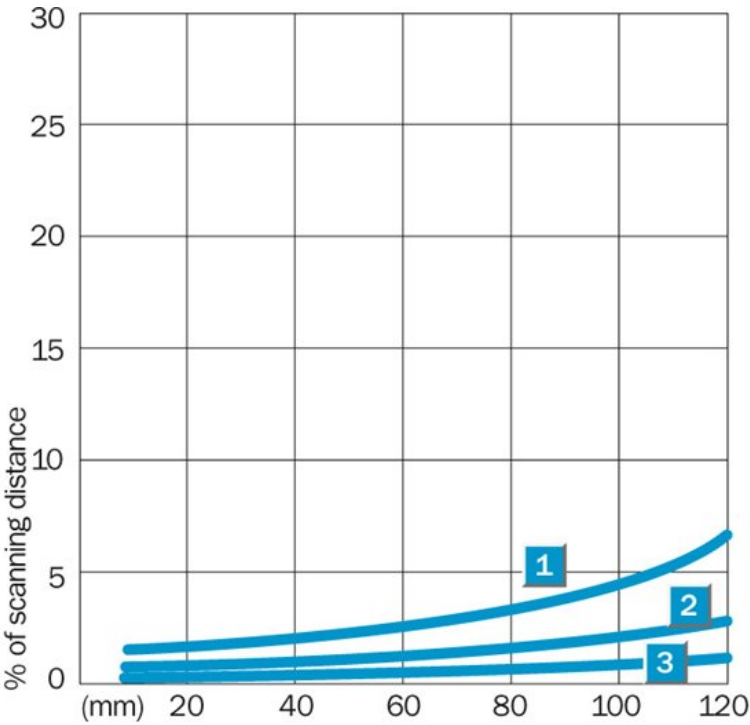
¹⁾ Limit values, reverse-polarity protected, operation in short-circuit protected network, max. 8 A ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Bez obciążenia ⁴⁾
Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ Do not bend below 0 °C ⁷⁾ A = V_S connections reverse-polarity protected ⁸⁾ B = inputs and output
reverse-polarity protected ⁹⁾ C = interference suppression ¹⁰⁾ At $UV \leq 24\text{ V}$ and $IA < 30\text{ mA}$

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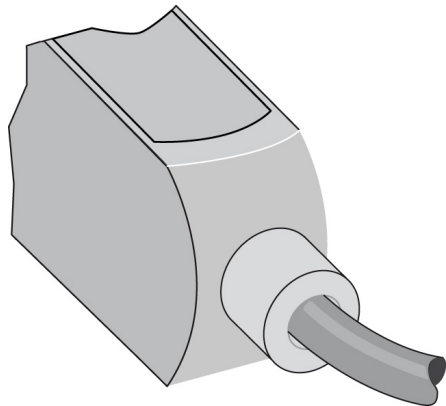
Connection diagram



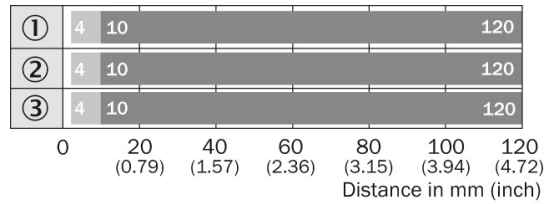
Characteristic curve



Connection type



Sensing range diagram



■ Operating distance ■ Sensing distance max. typ.

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

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