



Fotoprzełączniki W4S-3 Inox, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB4S-3P3434V



Nazwa modelu > **WTB4S-3P3434V**

Numer części > **1048016**



Produkt może różnić się od ilustracji

At a glance

- WashDown rated for fluid tightness (IP 66, IP 67, IP 68 and IP 69K) and Ecolab certified
- Tough stainless steel housing (316L/1.4404)
- Resistant to a variety of common cleaning and disinfection agents
- Modern electrical connection available - M12 connector with pin casting
- Best background and extraneous light suppression in its class with OES3 technology and two emitter LED's
- Flexible sensing ranges and hysteresis settings
- Key lock function, remote teach, quality monitoring

Your benefits

- 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
- Quick and easy alignment due to highly visible PinPoint emitter LED
- 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 22,2 mm
Housing design:	Washdown
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	4 mm ... 120 mm ¹⁾
Sensing range:	10 mm ... 120 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 (50 mm)

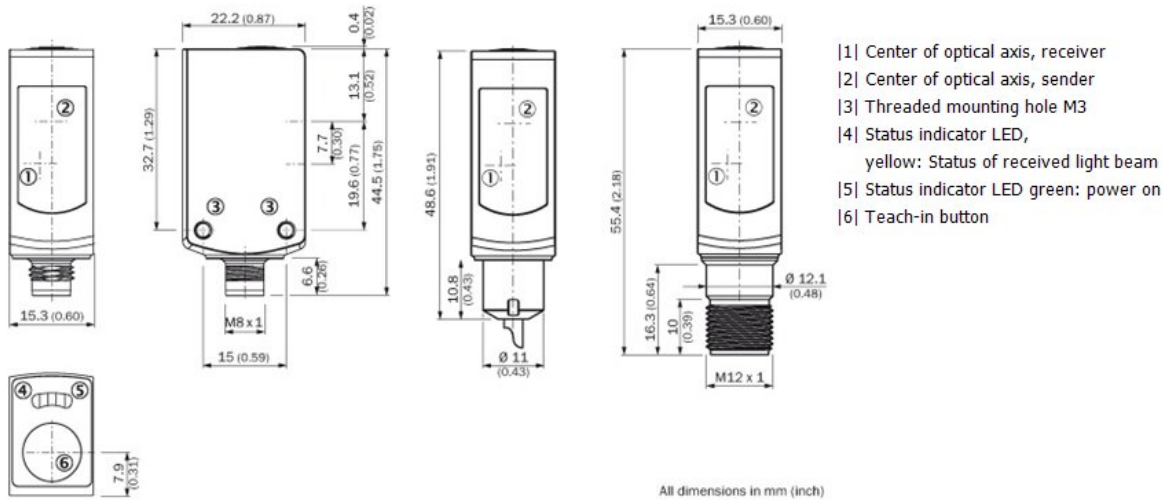
1) 2) Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) 3) Average service life of 100,000 h at $T_A = +25\text{ °C}$ 4) External teach-in: pulse > 2 s with voltage U_v with PNP and M with NPN

Mechanika/elektronika

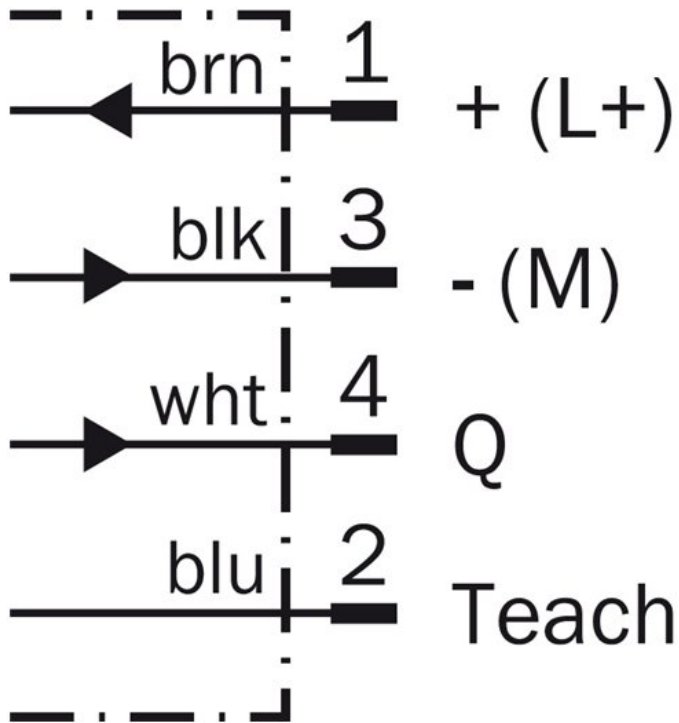
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	< 5 V _{ss} ²⁾
Current consumption:	≤ 30 mA ³⁾
Wyjście przełączające:	PNP
Switching output:	Przełączanie na jasnym
Output current I _{max} :	≤ 100 mA
Czas reakcji:	< 0,5 ms ⁴⁾
Switching frequency:	± 1.000 Hz ⁵⁾
Sposób przyłączenia:	Cable with connector M12, 4-pin, 150 mm ^{6) 7)}
Cable material:	PVC
Układ zabezpieczenia:::	A, B, C ^{8) 9) 10)}
Klasa ochronności:	III
Ciężar:	60 g
Special device:	-
Tworzywo, obudowa:	Stainless steel, Stainless steel 316L
Enclosure rating:	IP 66 IP 67 IP 68 IP 69K
Ambient operating temperature:	-30 °C ... +60 °C, -30 °C ... +70 °C ¹¹⁾
Ambient storage temperature:	-30 °C ... +75 °C

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⁾ Tightening torque, max.: 0.7 Nm ⁷⁾ Do not bend below 0 °C ⁸⁾ $A = V_S$ connections reverse-polarity protected ⁹⁾ B = inputs and output reverse-polarity protected ¹⁰⁾ C = interference suppression ¹¹⁾ At $U_V \leq 24\text{ V}$ and $I_A < 30\text{ mA}$

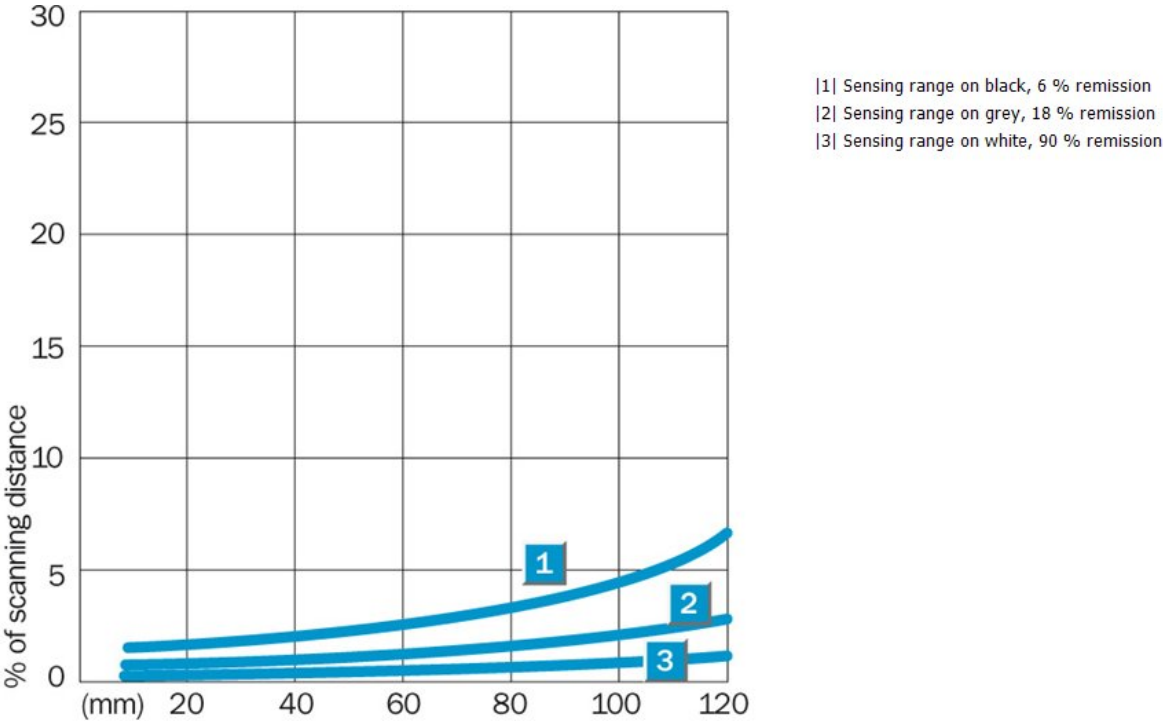
Dimensional drawing



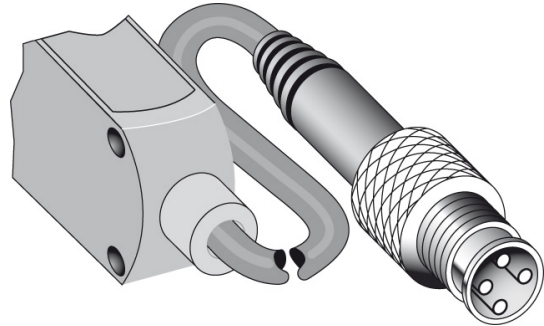
Connection diagram



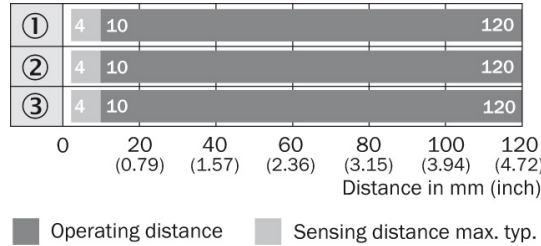
Characteristic curve



Connection type



Sensing range diagram



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

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