



Photoelectric sensors
W4S-3 Inox, Photoelectric proximity sensor,
Background suppression

WTB4SC-3P2262V



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Model Name > [WTB4SC-3P2262V](#)
Part No. > [1045092](#)



Illustration may differ

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



Features

Sensor/detection principle:	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D):	15.25 mm x 44.9 mm x 22.2 mm
Housing design:	Washdown
Housing design (light emission):	Rectangular, Slim
Sensing range max.:	4 mm ... 500 mm ¹⁾
Sensing range:	10 mm ... 350 mm ²⁾
Type of light:	Visible red light
Light source:	PinPoint LED ³⁾
Wave length:	650 nm
Teach-in:	Single teach-in button

Adjustment: Teach-in
Light spot size (distance): Ø 6.5 mm (150 mm)

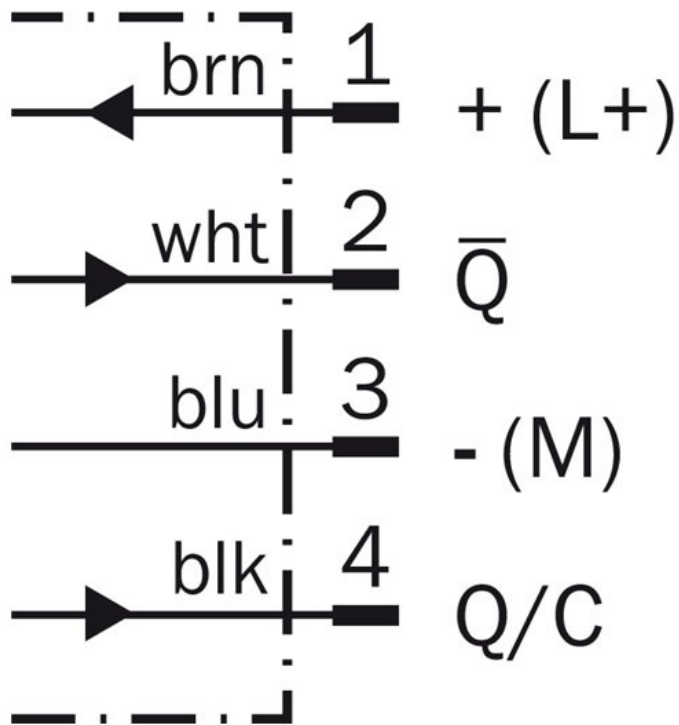
^{1) 2)} Object with 90 % reflectance (referred to standard white DIN 5033) ³⁾ Average service life of 100,000 h at $T_A = +25\text{ °C}$

Mechanics/electronics

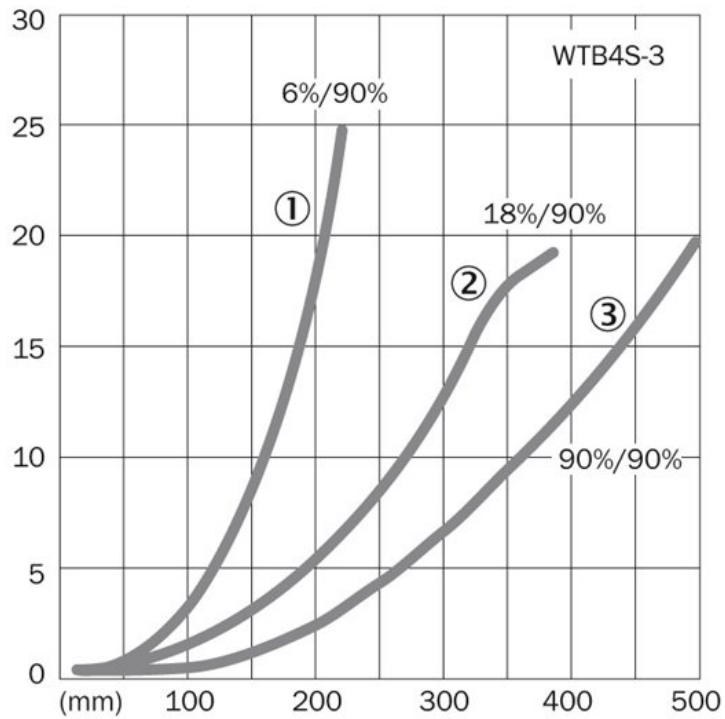
Supply voltage: 10 V DC ... 30 V DC ¹⁾
Ripple: < 5 Vpp ²⁾
Power consumption: ≤ 30 mA ³⁾
Output type: PNP
Switching mode: Light/dark-switching
Output current I_{max}: ≤ 100 mA
Response time: < 0.5 ms ⁴⁾
Switching frequency: 1,000 Hz ⁵⁾
Connection type: Connector M8, 4-pin
Circuit protection:: A, B, C ^{6) 7) 8)}
Protection class: III
Weight: 40 g
IO-Link: -
Special device: -
Housing material: Stainless steel, Stainless steel 316L
Enclosure rating: IP 66
IP 67
IP 68
IP 69K ⁹⁾
Description: IO-Link
Ambient operating temperature: -30 °C ... 60 °C, -30 °C ... 70 °C ¹⁰⁾
Ambient storage temperature: -30 °C ... 75 °C
UL File No.: NRKH.E181493 & 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⁾ Without load ⁴⁾
Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ $A = V_S$ connections reverse-polarity protected ⁷⁾ B = inputs and output reverse-polarity protected ⁸⁾
C = interference suppression ⁹⁾ Only in case of correctly mounted IP 69K connecting cable ¹⁰⁾ At $UV \leq 24\text{ V}$ and $IA < 30\text{ mA}$

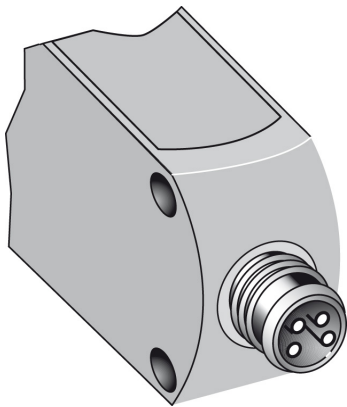
Connection diagram



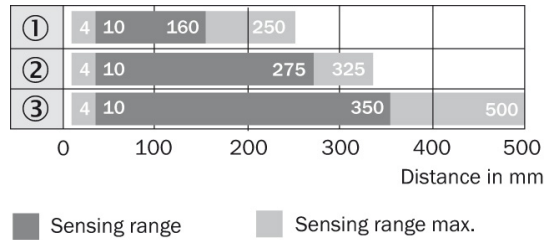
Characteristic curve



Connection type



Sensing range diagram



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