



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

WTF4S-3P2205VS02



Model Name > [WTF4S-3P2205VS02](#)
Part No. > [1046742](#)



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 extraneous light suppression in its class with OES3 technology and two emitter LED's
- Teach-in via stainless steel pushbutton with a metal membrane
- PinPoint LED technology provides a highly visible laser-like light spot

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
- Economical and efficient machine integration without a reflector, all the sensor needs is a fixed background for calibration
- Quick and easy alignment due to highly visible PinPoint emitter LED
- Easy adjustment via stainless steel metal membrane teach button



Features

Sensor/detection principle:	Photoelectric proximity sensor, Foreground suppression
Dimensions (W x H x D):	15.25 mm x 44.5 mm x 22.2 mm
Housing design:	Washdown
Housing design (light emission):	Rectangular
Sensing range max.:	20 mm ... 200 mm ¹⁾
Type of light:	Visible red light
Light source:	PinPoint LED ²⁾
Wave length:	650 nm
Special features:	External teach, No adjustment possibility, Light spot diameter of 2.5 mm in 150 mm distance, Reduced sensing range of 280 mm
Adjustment:	Single teach-in button, Cable
Light spot size (distance):	Ø 6.5 mm (150 mm)

¹⁾ Object with 90 % reflectance (referred to standard white, DIN 5033) ²⁾ Average service life: 100,000 h at T_U = +25 °C

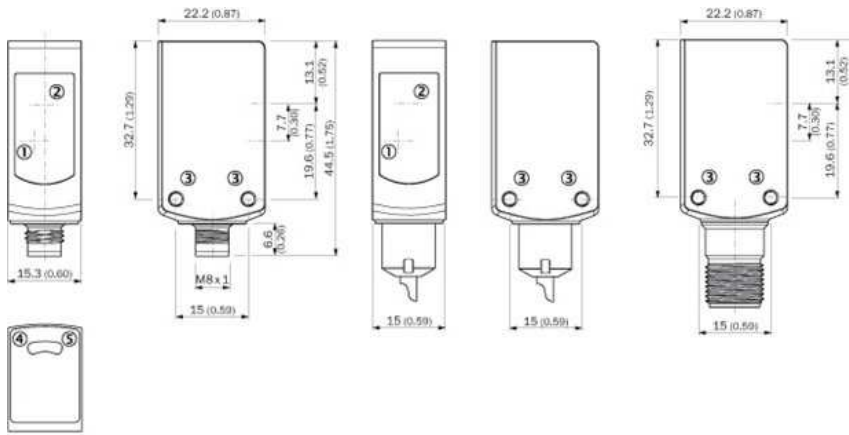
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	< 5 Vpp ²⁾
Power consumption:	≤ 30 mA ³⁾
Output type:	PNP
Switching mode:	Light 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 ⁶⁾
Circuit protection:::	A B ^{7) 8) 9)} C
Protection class:	III
Weight:	40 g
Special device:	✓
Enclosure rating:	IP 66 IP 67 IP 68 IP 69K ¹⁰⁾
Ambient operating temperature:	-30 °C ... +60 °C, -30 °C ... +70 °C ¹¹⁾
Ambient storage temperature:	-30 °C ... +75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493
Housing material:	Stainless steel, Stainless steel 316L

¹⁾ Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A ²⁾ May not exceed or fall below U_v tolerances ³⁾ Without load ⁴⁾

Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ Tightening torque, max.: 0.6 Nm ⁷⁾ A = V_S connections reverse-polarity protected ⁸⁾ B = inputs and output reverse-polarity protected ⁹⁾ C = interference suppression ¹⁰⁾ Only in case of correctly mounted IP 69K connecting cable ¹¹⁾ At UV ≤ 24 V and IA < 30 mA

Dimensional drawing



- [1] Center of receiver's optical axis
- [2] Center of optical axis, sender
- [3] Threaded mounting hole M3
- [4] Status indicator LED,
yellow: Status of received light beam
- [5] Status indicator LED green: supply voltage on

All dimensions in mm (inch)

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