



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

WTF4S-3P3232HS03



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Model Name > [WTF4S-3P3232HS03](#)
Part No. > [1050933](#)



Illustration may differ

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
- Stainless steel teach-in pushbutton with a metal membrane
- PinPoint LED technology provides a highly visible laser-like light spot

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 alignment due to highly visible PinPoint emitter LED



Features

Sensor/detection principle:	Photoelectric proximity sensor, Foreground suppression
Dimensions (W x H x D):	15.25 mm x 49.2 mm x 22.15 mm
Housing design:	Hygiene
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
Teach-in:	Single teach-in button
Adjustment:	Teach-in
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 of 100,000 h at T_A = +25 °C

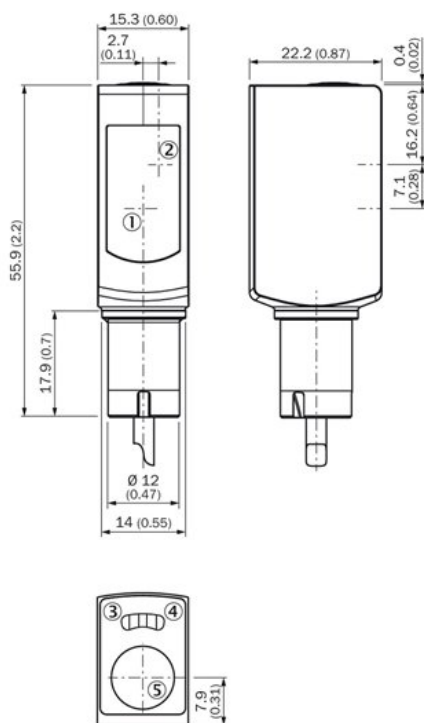
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
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Power consumption:	$\leq 30 \text{ mA}$ ²⁾
Output type:	PNP
Switching mode:	Light/dark-switching
Output current I _{max} :	$\leq 100 \text{ mA}$
Response time:	$< 0.5 \text{ ms}$ ³⁾
Switching frequency:	1,000 Hz ⁴⁾
Connection type:	Cable with connector M8, 4-pin, 150 mm ⁵⁾
Cable material:	PVC
Circuit protection:::	A B ⁶⁾ 7) 8) C
Protection class:	III
Weight:	50 g
Housing material:	Stainless steel, Stainless steel 316L
Enclosure rating:	IP 66 IP 67 IP 68 IP 69K
Special feature:	D12 adapter shaft
Special features:	Slotted diaphragm 2 mm in front of sender
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

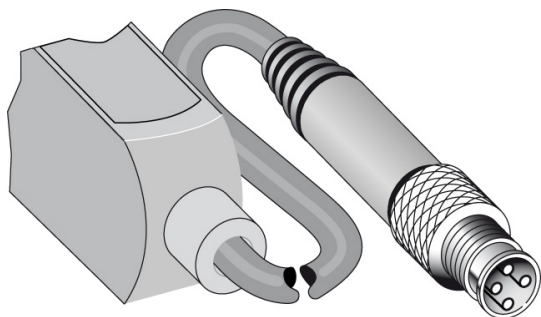
¹⁾ Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A ²⁾ Without load ³⁾ Signal transit time with resistive load ⁴⁾ With
light/dark ratio 1:1 ⁵⁾ Do not bend below 0 °C ⁶⁾ A = V _S connections reverse-polarity protected ⁷⁾ B = inputs and output reverse-polarity protected ⁸⁾ C = interference
suppression ⁹⁾ At UV $\leq 24 \text{ V}$ and IA $< 30 \text{ mA}$

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 type



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