



WTF4S-3P3264H

W4

PHOTOELECTRIC SENSORS





Ordering information

Туре	part no.
WTF4S-3P3264H	1048109

Other models and accessories → www.sick.com/W4

Illustration may differ



Detailed technical data

Features

Functional principle	Photoelectric proximity sensor
Functional principle detail	Foreground suppression
Sensing range max.	20 mm 200 mm ¹⁾
Emitted beam	
Light source	PinPoint LED ²⁾
Type of light	Visible red light
Light spot size (distance)	Ø 6.5 mm (150 mm)
Key LED figures	
Wave length	650 nm
Adjustment	Cable, Single teach-in button ³⁾
Special applications	Hygienic and washdown zones
Housing design	Hygiene

 $^{^{1)}}$ Object with 90% remission (based on standard white, DIN 5033).

Safety-related parameters

MTTF _D	1,211 years
DC _{avg}	0 %
T _M (mission time)	20 years

 $^{^{2)}}$ Average service life: 100,000 h at T_U = +25 °C.

 $^{^{\}rm 3)}$ External teach-in: pulse > 2 s with voltage Uv with PNP and M with NPN.

Electronics

Supply voltage U _B	10 V DC 30 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Current consumption	30 mA ³⁾
Protection class	III
Digital output	
Туре	PNP
Switching mode	Light switching
Output current I _{max.}	≤ 100 mA
Response time	< 0.5 ms ⁴⁾
Switching frequency	1,000 Hz ⁵⁾
Circuit protection	A ⁶⁾ B ⁷⁾ C ⁸⁾

 $^{^{1)}}$ Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A.

Mechanics

Housing	Rectangular
Design detail	Slim
Dimensions (W x H x D)	15.25 mm x 63.2 mm x 22.15 mm
Connection	Cable with M8 male connector, 4-pin ¹⁾
Connection detail	
Length of cable (L)	150 mm ¹⁾
Material	
Housing	Metal, Stainless steel V4A (1.4404, 316L)
Front screen	Plastic, PMMA
Cable	Plastic, PVC
Weight	50 g

 $^{^{1)}}$ Do not bend below 0 °C.

Ambient data

Enclosure rating	IP66 IP67 IP68 IP69K
Ambient operating temperature	-30 °C +70 °C ¹⁾ -30 °C +60 °C

 $^{^{1)}}$ At UV \leq 24 V and IA < 30 mA.

²⁾ May not fall below or exceed U_V 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.

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Ambient temperature, storage	-30 °C +75 °C
UL File No.	FDA, UL No. NRKH.E181493 & cUL No. NRKH7.E181493

 $^{^{1)}}$ At UV \leq 24 V and IA < 30 mA.

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓
ECOLAB certificate	✓
cULus certificate	✓
Photobiological safety (DIN EN 62471) certificate	✓

Classifications

LASS 5.0 27	7270904
LASS 5.1.4 27	7270904
LASS 6.0 27	7270904
LASS 6.2 27	7270904
LASS 7.0 27	7270904
LASS 8.0 27	7270904
LASS 8.1 27	7270904
LASS 9.0 27	7270904
LASS 10.0 27	7270904
LASS 11.0 27	7270904
LASS 12.0 27	7270903
M 5.0	0002719
M 6.0	0002719
M 7.0	0002719
M 8.0	0002719
SPSC 16.0901 39	9121528

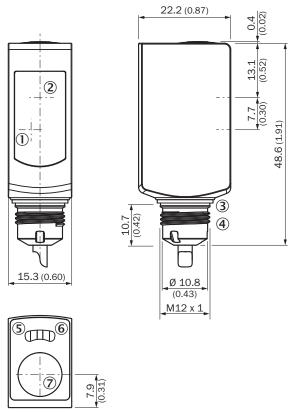
Connection type



Connection diagram Cd-092



Dimensional drawing WTB4S-3H, WTF4S-3H, with single teach-in button



Dimensions in mm (inch)

- ① Center of optical axis, receiver
- ② Center of optical axis, sender
- ③ Sealing ring (tightening torque 6 Nm)
- 4 Connector M12
- $\ensuremath{\mathfrak{G}}$ LED indicator yellow: Status of received light beam
- ® LED indicator green: Supply voltage active
- 7 Teach-in button

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Recommended accessories

Other models and accessories → www.sick.com/W4

	Brief description	Туре	part no.	
connectors ar	connectors and cables			
•	Connection type head A: Female connector, M8, 4-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Connection systems: Flying leads Note: This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind., Not resistant against lactic acid & hydrogen peroxide (H2O2) Application: Hygienic and washdown zones	DOL-0804-G05MNI	6059194	

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