

WTF4S-3P2462V w4

**MINIATURE PHOTOELECTRIC SENSORS** 





## Ordering information

Туре	Part no.
WTF4S-3P2462V	1072453

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 <sup>1)</sup>
Emitted beam	
Light source	PinPoint LED <sup>2)</sup>
Type of light	Visible red light
Light spot size (distance)	Ø 6.5 mm (150 mm)
Key LED figures	
Wave length	650 nm
Adjustment	Single teach-in button
Special applications	Hygienic and washdown zones
Housing design	Washdown

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

## Safety-related parameters

MTTF <sub>D</sub>	1,186 years
DC <sub>avg</sub>	0 %
T <sub>M</sub> (mission time)	20 years

 $<sup>^{2)}</sup>$  Average service life: 100,000 h at  $\rm T_U$  = +25 °C.

#### Electrical data

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

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

#### Mechanical data

Housing	Rectangular
Design detail	Slim
Dimensions (W x H x D)	15.25 mm x 44.9 mm x 22.2 mm
Connection	Male connector M12, 4-pin <sup>1)</sup>
Material	
Housing	Metal, Stainless steel V4A (1.4404, 316L)
Front screen	Plastic, PMMA
Weight	40 g

<sup>1)</sup> Max. tightening torque: 0.6 Nm.

### Ambient data

Enclosure rating	IP66 IP67 IP68 IP69K <sup>1)</sup>
Ambient operating temperature	-30 °C +70 °C <sup>2)</sup> -30 °C +60 °C
Ambient temperature, storage	-30 °C +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

 $<sup>^{1)}</sup>$  Only in case of correctly mounted IP69K connecting cable.

 $<sup>^{2)}</sup>$  May not fall below or exceed  $\mathrm{U}_{\mathrm{V}}$  tolerances.

<sup>3)</sup> Without load.

<sup>&</sup>lt;sup>4)</sup> Signal transit time with resistive load.

<sup>5)</sup> With light/dark ratio 1:1.

<sup>&</sup>lt;sup>6)</sup> A = V<sub>S</sub> connections reverse-polarity protected.

<sup>&</sup>lt;sup>7)</sup> B = inputs and output reverse-polarity protected.

<sup>8)</sup> C = interference suppression.

 $<sup>^{2)}</sup>$  At UV  $\leq$  24 V and IA < 30 mA.

## Classifications

ECLASS 5.0	27270904
ECLASS 5.1.4	27270904
ECLASS 6.0	27270904
ECLASS 6.2	27270904
ECLASS 7.0	27270904
ECLASS 8.0	27270904
ECLASS 8.1	27270904
ECLASS 9.0	27270904
ECLASS 10.0	27270904
ECLASS 11.0	27270904
ECLASS 12.0	27270903
ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719
ETIM 8.0	EC002719
UNSPSC 16.0901	39121528

## Connection type

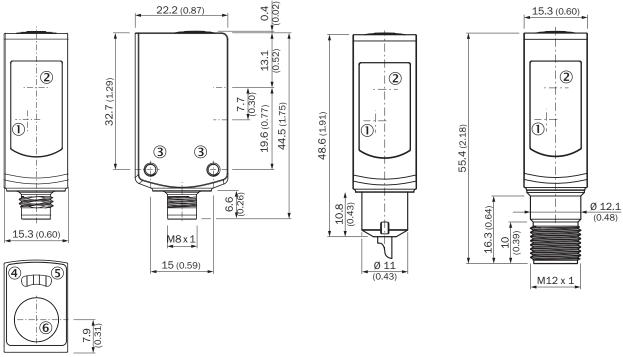


## Connection diagram

### Cd-083

## Dimensional drawing (Dimensions in mm (inch))

WTB4S-3V, WTF4S-3V, Single teach-in button



- ① Center of optical axis, receiver
- ② Center of optical axis, sender
- ③ Threaded mounting hole M3
- 4 LED indicator yellow: Status of received light beam
- (5) LED indicator green: Supply voltage active
- Teach-in button

### Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brad	ckets and plates		
P.S. A	Mounting bracket for floor mounting, Stainless steel 1.4571, mounting hardware included	BEF-W4-B	2051630
Others			
6	Connection type head A: Female connector, M12, 4-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PP Description: Sensor/actuator cable, unshielded Connection systems: Flying leads Note: This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2) Application: Hygienic and washdown zones, Drag chain operation	DOL-1204-G05MRN	6058476

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