

WTT2SL-2P3492S01

WTT2 PowerProx

TIME-OF-FLIGHT SENSORS





Ordering information

Туре	part no.
WTT2SL-2P3492S01	1088393

Other models and accessories → www.sick.com/WTT2_PowerProx

Illustration may differ



Detailed technical data

Features

Functional principle	Photoelectric proximity sensor	
Functional principle detail	Background suppression, Optical time-of-flight	
Housing design (light emission)	Rectangular	
Sensing range max.	50 mm 800 mm ¹⁾	
Sensing range	50 mm 800 mm ¹⁾	
Type of light	Infrared light	
Light source	Laser ²⁾	
Light spot size (distance)	Ø 10 mm (300 mm)	
Wave length	940 nm	
Laser class	1	
Adjustment	Single teach-in button ³⁾	
Special applications	Detecting small objects	
Safety-related parameters		
MTTF _D	925 years	
DC _{avg}	0 %	

 $^{^{1)}}$ Object with 6 ... 90% remission (based on standard white, DIN 5033).

²⁾ Average service life: 50,000 h at T_U = +25 °C.

³⁾ Teach-Offset 15 mm.

Electronics

Supply voltage \mathbf{U}_{B}	10 V DC 30 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Current consumption	20 mA ³⁾
Switching output	PNP
Switching mode	Light/dark switching
Output current I _{max.}	≤ 50 mA
Response time	Typ. 90 ms ⁴⁾
Switching frequency	5 Hz ⁵⁾
Analog output	-
Circuit protection	A ⁶⁾ B ⁷⁾ D ⁸⁾
Protection class	III
Enclosure rating	IP67

 $^{^{1)}}$ Limit values. Operated in short-circuit protected network: max. 8 A.

Mechanics

Dimensions (W x H x D)	7.7 mm x 27.5 mm x 13.5 mm
Housing material	Plastic, MABS ABS
Optics material	Plastic, PMMA
Connection type	Cable with M12 male connector, 4-pin, 300 mm
Connection type Detail	
Cable diameter	Ø 3 mm
Cable material	Plastic, PVC

Ambient data

Ambient operating temperature	-25 °C +50 °C
Ambient temperature, storage	-40 °C +75 °C

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

 $^{^{2)}}$ May not fall below or exceed U_V tolerances.

³⁾ Without load.

⁴⁾ Jitter +- 20 ms.

⁵⁾ With light/dark ratio 1:1.

 $^{^{6)}}$ A = V_S connections reverse-polarity protected.

⁷⁾ B = output reverse-polarity protected.

⁸⁾ D = outputs overcurrent and short-circuit protected.

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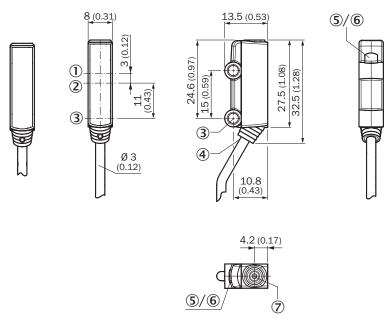
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ECLASS 8.1	27270904
ECLASS 9.0	27270904
ECLASS 10.0	27270904
ECLASS 11.0	27270904
ECLASS 12.0	27270903
ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719
ETIM 8.0	EC002719
UNSPSC 16.0901	39121528

Certificates

EU declaration of conformity	1
UK declaration of conformity	1
ACMA declaration of conformity	1
Moroccan declaration of conformity	1
China RoHS	1
cULus certificate	1
Laser safety (IEC 60825-1) certificate	1

Dimensional drawing



Dimensions in mm (inch)

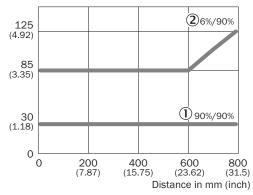
- ① optical axis, receiver
- ② optical axis, sender
- 3 Mounting hole, Ø 3.2 mm
- 4 Connection
- ⑤ LED indicator green: Supply voltage active
- **(6)** LED indicator yellow: Status of received light beam

7 single teach-in button

Connection diagram Cd-083

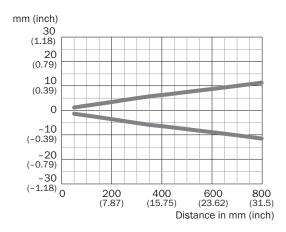
Characteristic curve

Min. distance from object to background in mm (inch)



- ① Sensing range on white, 90% remission factor
- ② Sensing range on black, 6% remission factor

Light spot size



Recommended accessories

Other models and accessories → www.sick.com/WTT2_PowerProx

	Brief description	Туре	part no.	
connectors an	connectors and cables			
	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YF2A14-050VB3XLEAX	2096235	
	 Connection type head A: Male connector, M12, 4-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² 	STE-1204-G	6009932	
Mounting syst	Mounting systems			
1 3/2	 Description: Mounting bracket for wall mounting Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware Suitable for: W2S-2 	BEF-W2S-B	4034749	

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