



WTT2SL-2P3292

WTT2 PowerProx

TIME-OF-FLIGHT SENSORS

SICK
Sensor Intelligence.

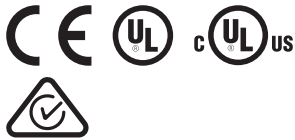


Ordering information

| Type | Part no. |
|---------------|----------|
| WTT2SL-2P3292 | 1085602 |

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 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.

²⁾ May not fall below or exceed U_y 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.

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 M8 male connector, 4-pin, 200 mm |
| Connection type Detail | |
| Cable diameter | Ø 3 mm |
| Cable material | Plastic, PVC |

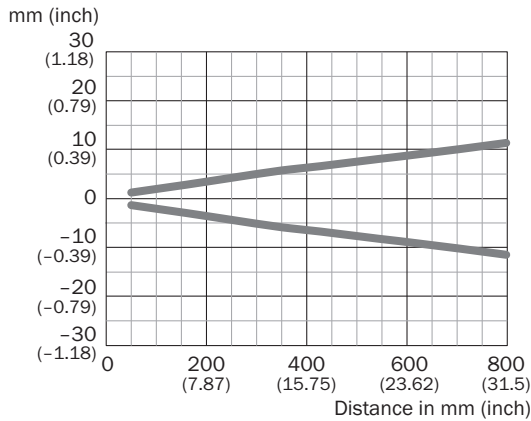
Ambient data

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

Classifications

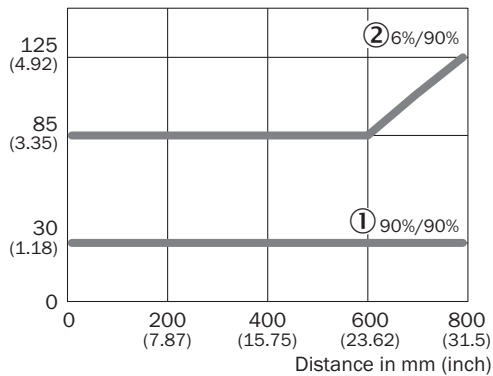
| | |
|---------------------|----------|
| ECLASS 5.0 | 27270904 |
| ECLASS 5.1.4 | 27270904 |
| ECLASS 6.0 | 27270904 |
| ECLASS 6.2 | 27270904 |
| ECLASS 7.0 | 27270904 |
| ECLASS 8.0 | 27270904 |
| ECLASS 8.1 | 27270904 |

Light spot size



Sensing distance



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

Recommended accessories

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

| | Brief description | Type | Part no. |
|---|--|--------------------|----------|
| Mounting brackets and plates | | | |
|  | Mounting bracket for wall mounting, steel, zinc coated, without mounting hardware | BEF-W2S-B | 4034749 |
| Others | | | |
|  | <ul style="list-style-type: none"> • Connection type head A: Female connector, M8, 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 | YF8U14-050VA3XLEAX | 2095889 |

| | Brief description | Type | Part no. |
|---|---|------------|----------|
|  | <ul style="list-style-type: none">• Connection type head A: Male connector, M8, 4-pin, straight, A-coded• Description: Unshielded• Connection systems: Screw-type terminals• Permitted cross-section: 0.14 mm² ... 0.5 mm² | STE-0804-G | 6037323 |

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com