



WSE4T-3P1430

W4

PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

| Type | part no. |
|--------------|----------|
| WSE4T-3P1430 | 1029646 |

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

Detailed technical data

Features

| | | |
|---|----------------------------|---|
| Functional principle | | Through-beam photoelectric sensor |
| Sensing range max. | | 0 m ... 3 m |
| Sensing range | | 0 m ... 2.5 m |
| Emitted beam | | |
| | Light source | PinPoint LED ¹⁾ |
| | Type of light | Visible red light |
| | Light spot size (distance) | Ø 75 mm (2 m) |
| Key LED figures | | |
| | Wave length | 650 nm |
| Adjustment | | None |
| Special applications | | Hygienic and washdown zones |
| Part number of individual components | | 2040565 WS4T-3D1430 2040566 WE4T-3P1430 |

¹⁾ Average service life: 100,000 h at T_U = +25 °C.

Safety-related parameters

| | |
|-------------------------|-------------|
| MTTF_D | 1,008 years |
| DC_{avg} | 0 % |

Electronics

| | |
|--|---|
| Supply voltage U_B | 10 V DC ... 30 V DC ¹⁾ |
| Ripple | < 5 V _{pp} ²⁾ |
| Current consumption | 20 mA ³⁾ |
| Protection class | III |
| Digital output | |
| Type | 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⁾ C ⁷⁾ D ⁸⁾ |
| Test input sender off | TE to 0 V |

¹⁾ Limit values.

²⁾ May not fall below or exceed U_y tolerances.

³⁾ Sender.

⁴⁾ Signal transit time with resistive load.

⁵⁾ With light/dark ratio 1:1.

⁶⁾ A = V_S connections reverse-polarity protected.

⁷⁾ C = interference suppression.

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

Mechanics

| | |
|-------------------------------|--|
| Housing | Rectangular |
| Design detail | Flat |
| Dimensions (W x H x D) | 22 mm x 42 mm x 21.8 mm |
| Connection | Cable, 3-wire, 5 m ¹⁾ |
| Connection detail | |
| Conductor size | 0.14 mm ² |
| Cable diameter | Ø 3.4 mm |
| Length of cable (L) | 5 m ¹⁾ |
| Material | |
| Housing | Metal, zinc diecast Plastic, PTFE coating |
| Front screen | Plastic, PMMA |
| Cable | Plastic, PVC/PTFE coating |
| Weight | 30 g |

¹⁾ Do not bend below 0 °C.

Ambient data

| | |
|--------------------------------------|-------------------|
| Enclosure rating | IP68 IP69K |
| Ambient operating temperature | -40 °C ... +60 °C |

| | |
|-------------------------------------|------------------------------|
| Ambient temperature, storage | -40 °C ... +75 °C |
| UL File No. | NRKH.E181493 & NRKH7.E181493 |

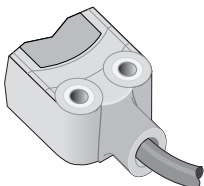
Certificates

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

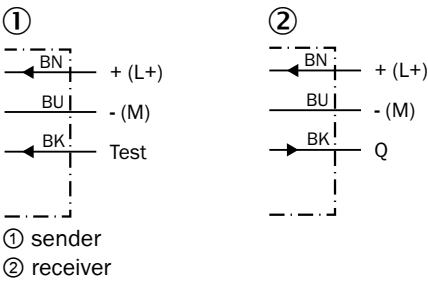
Classifications

| | |
|-----------------------|----------|
| ECLASS 5.0 | 27270901 |
| ECLASS 5.1.4 | 27270901 |
| ECLASS 6.0 | 27270901 |
| ECLASS 6.2 | 27270901 |
| ECLASS 7.0 | 27270901 |
| ECLASS 8.0 | 27270901 |
| ECLASS 8.1 | 27270901 |
| ECLASS 9.0 | 27270901 |
| ECLASS 10.0 | 27270901 |
| ECLASS 11.0 | 27270901 |
| ECLASS 12.0 | 27270901 |
| ETIM 5.0 | EC002716 |
| ETIM 6.0 | EC002716 |
| ETIM 7.0 | EC002716 |
| ETIM 8.0 | EC002716 |
| UNSPSC 16.0901 | 39121528 |

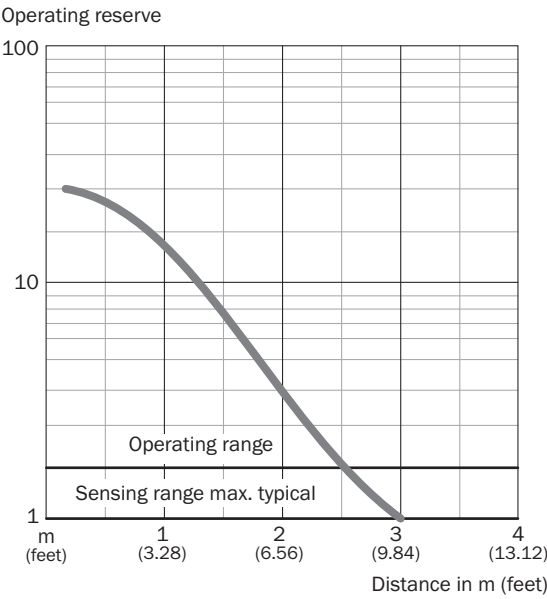
Connection type



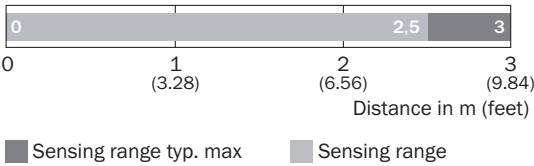
Connection diagram Cd-061



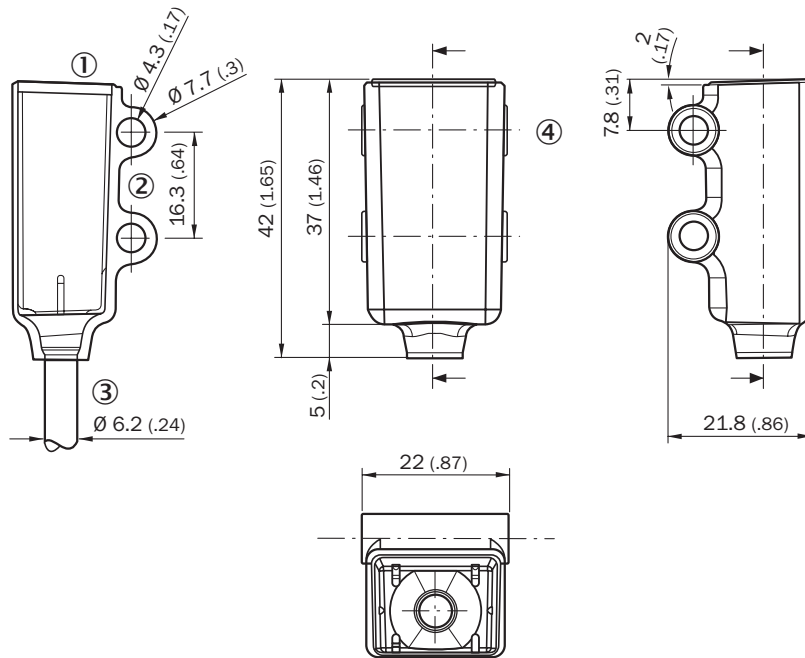
Characteristic curve WSE4-3 PTFE



Sensing range diagram WSE4-3 PTFE



Dimensional drawing Wx4-3, PTFE





Dimensions in mm (inch)

- ① LED signal
- ② Mounting hole, Ø 4.3 mm
- ③ cable 5 m, Ø 3.4 mm, 2 m Teflon coated Ø 6.2
- ④ Optical axis, receiver
- ⑤ Optical axis, sender

Recommended accessories

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

| | Brief description | Type | part no. |
|---|---|--------------|----------|
| connectors and cables | | | |
|  | <ul style="list-style-type: none"> Connection type head A: Male connector, M8, 3-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² ... 0.5 mm² | STE-0803-G | 6037322 |
| Mounting systems | | | |
|  | <ul style="list-style-type: none"> Description: Plate N11N for universal clamp bracket Material: Stainless steel Details: Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp) Items supplied: Universal clamp (5322627), mounting hardware Usable for: DeltaPac, Glare, WTD20E | BEF-KHS-N11N | 2071081 |

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.”

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