



WSE4T-3P1430

W4-3 PTFE

MINIATURE PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
WSE4T-3P1430	1029646

Other models and accessories → www.sick.com/W4-3_PTFE

Detailed technical data

Features

Sensor/ detection principle	Through-beam photoelectric sensor
Dimensions (W x H x D)	22 mm x 42 mm x 21.8 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 m ... 3 m
Sensing range	0 m ... 2.5 m
Type of light	Visible red light
Light source	PinPoint LED ¹⁾
Light spot size (distance)	Ø 75 mm (2 m)
Wave length	650 nm
Adjustment	None
Special applications	Hygienic and washdown zones

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

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Power consumption	20 mA ^{3) 4)}
Switching output	PNP
Switching mode	Light switching
Output current I_{max}	≤ 100 mA
Response time	< 0.5 ms ⁵⁾
Switching frequency	1,000 Hz ⁶⁾
Connection type	Cable, 3-wire, 5 m ⁷⁾
Cable material	PVC/PTFE coating
Conductor cross-section	0.14 mm ²
Cable diameter	Ø 3.4 mm
Circuit protection	A ⁸⁾ C ⁹⁾ D ¹⁰⁾
Protection class	III
Weight	30 g
Housing material	PTFE coating, PTFE
Optics material	Plastic, PMMA
Enclosure rating	IP68 IP69K
Test input sender off	TE to 0 V
Ambient operating temperature	-40 °C ... +60 °C
Ambient storage temperature	-40 °C ... +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493
Part number of individual components	2040565 WS4T-3D1430 2040566 WE4T-3P1430

¹⁾ Limit values.

²⁾ May not exceed or fall below U_v tolerances.

³⁾ Sender.

⁴⁾ Receiver.

⁵⁾ Signal transit time with resistive load.

⁶⁾ With light/dark ratio 1:1.

⁷⁾ Do not bend below 0 °C.

⁸⁾ A = V_S connections reverse-polarity protected.

⁹⁾ C = interference suppression.

¹⁰⁾ D = outputs overcurrent and short-circuit protected.

Safety-related parameters

MTTF_D	1,008 years
DC_{avg}	0%

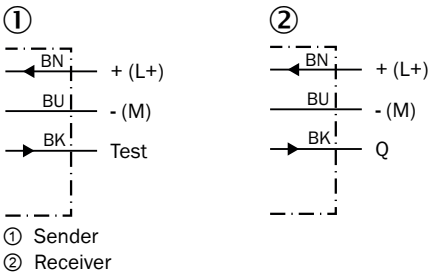
Classifications

ECI@ss 5.0	27270901
ECI@ss 5.1.4	27270901

ECI@ss 6.0	27270901
ECI@ss 6.2	27270901
ECI@ss 7.0	27270901
ECI@ss 8.0	27270901
ECI@ss 8.1	27270901
ECI@ss 9.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716
UNSPSC 16.0901	39121528

Connection diagram

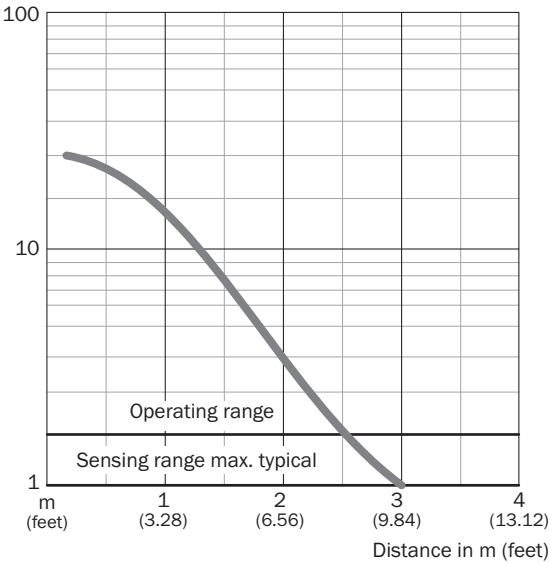
Connection diagram



Characteristic curve

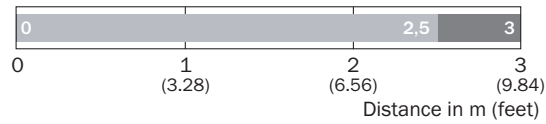
WSE4-3 PTFE

Operating reserve



Sensing range diagram

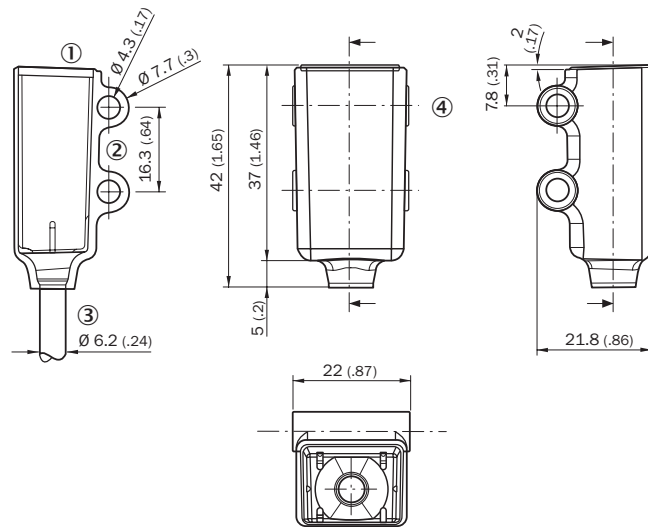
WSE4-3 PTFE



■ Sensing range typ. max ■ Sensing range

Dimensional drawing (Dimensions in mm (inch))

Wx4-3, PTFE



- 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/W4-3_PTFE

	Brief description	Type	Part no.
Plug connectors and cables			
	Head A: male connector, M8, 3-pin, straight Head B: - Cable: unshielded	STE-0803-G	6037322

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:

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