

WSE4T-3P1430

W4-3 PTFE

MINIATURE PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
WSE4T-3P1430	1029646

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

Illustration may differ



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.

Safety-related parameters

MTTF _D	1,008 years
DC _{avg}	0%

Classifications

ECI@ss 5.0	27270901
ECI@ss 5.1.4	27270901

 $^{^{2)}}$ 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.

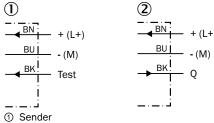
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MINIATURE PHOTOELECTRIC SENSORS

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
ECI@ss 10.0	27270901
ECI@ss 11.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716
ETIM 7.0	EC002716
UNSPSC 16.0901	39121528

Connection diagram

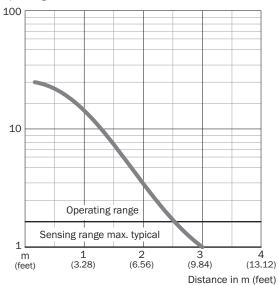
Cd-061



Characteristic curve

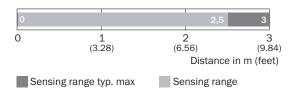
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Operating reserve



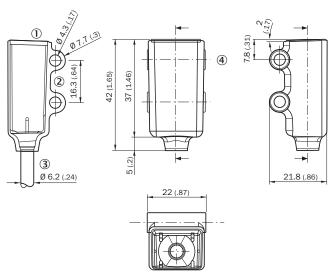
Sensing range diagram

WSE4-3 PTFE



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	Туре	Part no.
Plug connecto	ors and cables		
	Head A: male connector, M8, 3-pin, straight Head B: - Cable: unshielded	STE-0803-G	6037322

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