

WSE4S-3P1430V

W4

MINIATURE PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
WSE4S-3P1430V	1058184

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

Illustration may differ



Detailed technical data

Features

Functional principle	Through-beam photoelectric sensor
Sensing range max.	0 m 5 m
Sensing range	0 m 4.5 m
Emitted beam	
Light source	PinPoint LED ¹⁾
Type of light	Visible red light
Light spot size (distance)	Ø 50 mm (2 m)
Key LED figures	
Wave length	650 nm
Adjustment	None
Special applications	Hygienic and washdown zones
Part number of individual components	2064069 WS4S-3D1430V 2064072 WE4S-3P1430V
Housing design	Washdown

 $^{^{1)}}$ Average service life: 100,000 h at TU = +25 °C.

Safety-related parameters

MTTF _D	968 years
DC _{avg}	0 %
T _M (mission time)	20 years

Electrical data

Supply voltage \mathbf{U}_{B}	10 V DC 30 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Protection class	III
Digital output	
Туре	PNP
Switching mode	Light switching
Output current I _{max.}	≤ 100 mA
Response time	< 0.5 ms ³⁾
Switching frequency	1,000 Hz ⁴⁾
Circuit protection	A, B, C ^{5) 6) 7)}
Test input sender off	TE to 0 V

 $^{^{1)}}$ Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A.

Mechanical data

Housing	Rectangular
Design detail	Slim
Dimensions (W x H x D)	15.25 mm x 48.6 mm x 22.2 mm
Connection	Cable, 3-wire, 5 m ¹⁾
Connection detail	
Conductor size	0.14 mm ²
Length of cable (L)	5 m ¹⁾
Material	
Housing	Stainless steel, Stainless steel V4A (1.4404, 316L)
Front screen	Plastic, PMMA
Cable	PVC
Weight	125 g

 $^{^{1)}}$ Do not bend below 0 °C.

Ambient data

Enclosure rating	IP66 IP67 IP68 IP69K
Ambient operating temperature	-30 °C +70 °C ¹⁾
Ambient temperature, storage	-30 °C +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

 $^{^{1)}}$ At UV \leq 24 V and IA < 30 mA.

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

³⁾ Signal transit time with resistive load.

⁴⁾ With light/dark ratio 1:1.

 $^{^{5)}}$ A = V_S connections reverse-polarity protected.

⁶⁾ B = inputs and output reverse-polarity protected.

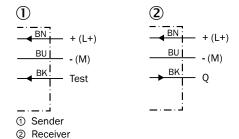
⁷⁾ C = interference suppression.

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

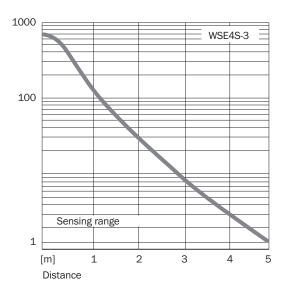
Connection diagram

Cd-061



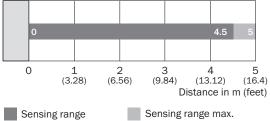
Characteristic curve

WSE4S-3V, WSE4S-3H



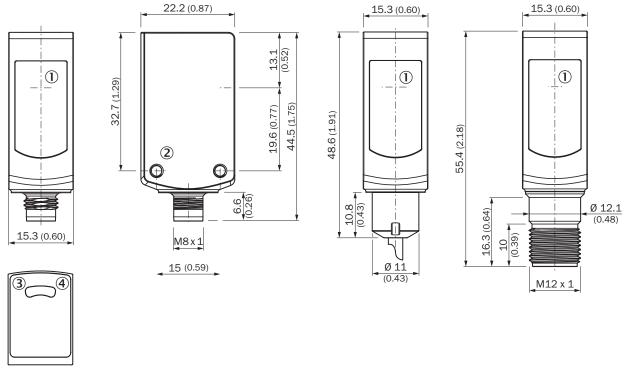
Sensing range diagram

WSE4S-3



Dimensional drawing (Dimensions in mm (inch))

WL4S-3V, WLG4S-3V, without single teach-in button



- ① Center of optical axis
- ② Threaded mounting hole M3
- 3 LED indicator yellow: Status of received light beam
- 4 LED indicator green: Supply voltage active

Recommended accessories

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

	Brief description	Туре	Part no.	
Mounting bra	Mounting brackets and plates			
A	Mounting bracket for floor mounting, Stainless steel 1.4571, mounting hardware included	BEF-W4-B	2051630	
Plug connectors and cables				
	 Connection type head A: Male connector, M8, 3-pin, straight Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	STE-0803-G	6037322	

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