



Photoelectric sensors W4S-3 Inox, Through-beam photoelectric sensor

WSE4S-3P1430V



Model Name > WSE4S-3P1430V
Part No. > 1052412



Illustration may differ

At a glance

- WashDown rated for fluid tightness (IP 66, IP 67, IP 68 and IP 69K) and Ecolab certified
- Tough stainless steel housing (316L/1.4404)
- Resistant to a variety of common cleaning and disinfection agents
- Modern electrical connection available - M12 connector with pin casting
- Teach-in via stainless steel metal membrane teach button
- PinPoint LED technology provides a highly visible laser-like light spot

Your benefits

- Long service life in harsh conditions ensures less downtime and fewer replacement costs
- Quick and easy alignment due to highly visible PinPoint emitter LED
- Easy adjustment via a stainless steel metal membrane teach-in pushbutton



Features

Sensor/detection principle:	Through-beam photoelectric sensor
Dimensions (W x H x D):	15.25 mm x 48.6 mm x 22.2 mm
Housing design:	Washdown
Housing design (light emission):	Rectangular, Slim
Sensing range max.:	0 m ... 5 m
Sensing range:	0 m ... 4.5 m
Type of light:	Visible red light
Light source:	PinPoint LED ¹⁾
Wave length:	650 nm
Light spot size (distance):	Ø 50 mm (2 m)

¹⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	≤ 5 Vpp
Power consumption, sender:	≤ 20 mA
Power consumption, receiver:	≤ 20 mA
Power consumption:	≤ 30 mA

Output type:	PNP
Switching mode:	Light switching
Output current I _{max} :	≤ 100 mA
Response time:	6) 0.5 ms
Switching frequency:	7) 0 Hz
Connection type:	Cable, 3-wire, 5 m ⁸⁾
Cable material:	PVC
Conductor cross-section:	0.14 mm ²
Circuit protection:::	A B 9) 10) 11) C
Protection class:	III
Weight:	125 g
Housing material:	Stainless steel, Stainless steel 316L
Enclosure rating:	IP 66 IP 67 IP 68 IP 69K
Test input sender off:	TE to 0 V
Ambient operating temperature:	-30 °C ... 60 °C, -30 °C ... 70 °C ¹²⁾
Ambient storage temperature:	-30 °C ... 75 °C
Part number of individual components:	Receiver, WE4S-3P1430V, 2058015, Sender, WS4S-3D1430V, 2058017
UL File No.:	NRKH.E181493 & NRKH7.E181493

- ¹⁾ Limit values, reverse-polarity protected, operation in short-circuit protected network, max. 8 A ²⁾ May not exceed or fall short of V_S tolerances ^{3) 4) 5)} Without load
⁶⁾ Signal transit time with resistive load ⁷⁾ With light/dark ratio 1:1 ⁸⁾ Do not bend below 0 °C ⁹⁾ A = V_S connections reverse-polarity protected ¹⁰⁾ B = inputs and output reverse-polarity protected ¹¹⁾ C = interference suppression ¹²⁾ At UV ≤ 24 V and IA < 30 mA

Technical drawings of the 1000 Series LED light fixture showing front, side, and detail views with dimensions in mm and inches.

Front View:

- Overall width: 22.2 (0.87)
- Overall height: 32.7 (1.29)
- Mounting hole diameter: Ø 6.6 (0.26)
- Mounting hole spacing: 15 (0.59)
- Bottom mounting hole diameter: M8 x 1
- Bottom mounting hole spacing: 13.1 (0.52)
- Bottom mounting hole diameter: Ø 11 (0.43)

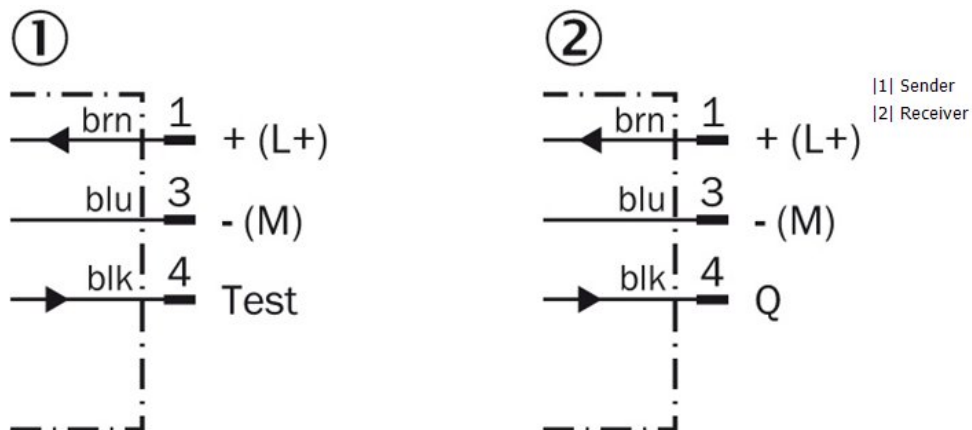
Side View:

- Overall width: 15.3 (0.60)
- Overall height: 48.6 (1.91)
- Bottom mounting hole diameter: Ø 11 (0.43)

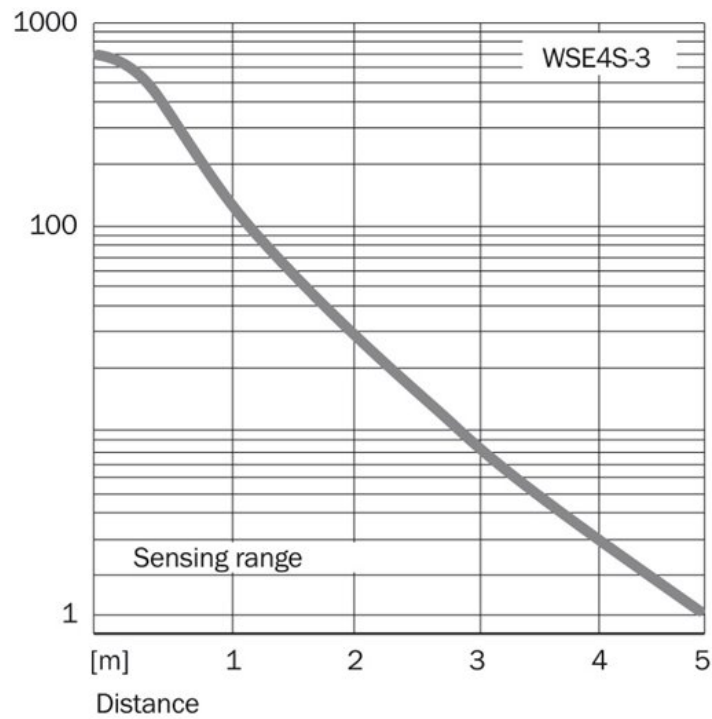
Detail View:

- Overall width: 15.3 (0.60)
- Overall height: 55.4 (2.18)
- Bottom mounting hole diameter: Ø 12.1 (0.48)
- Bottom mounting hole spacing: 10 (0.39)
- Bottom mounting hole diameter: M12 x 1

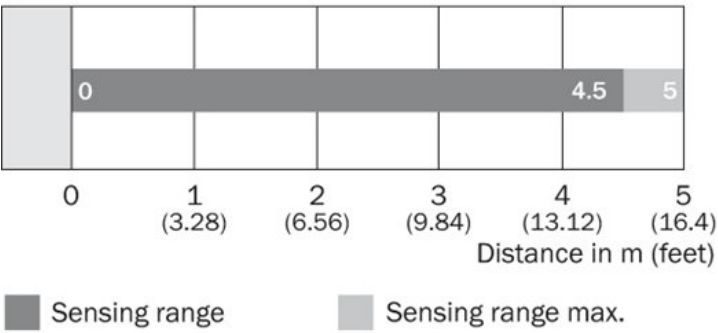
- ### Connection diagram



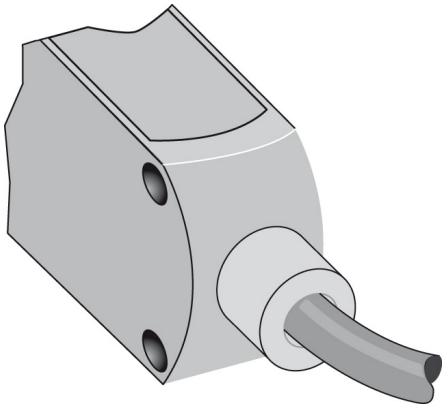
Characteristic curve



Sensing range diagram



Connection type



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