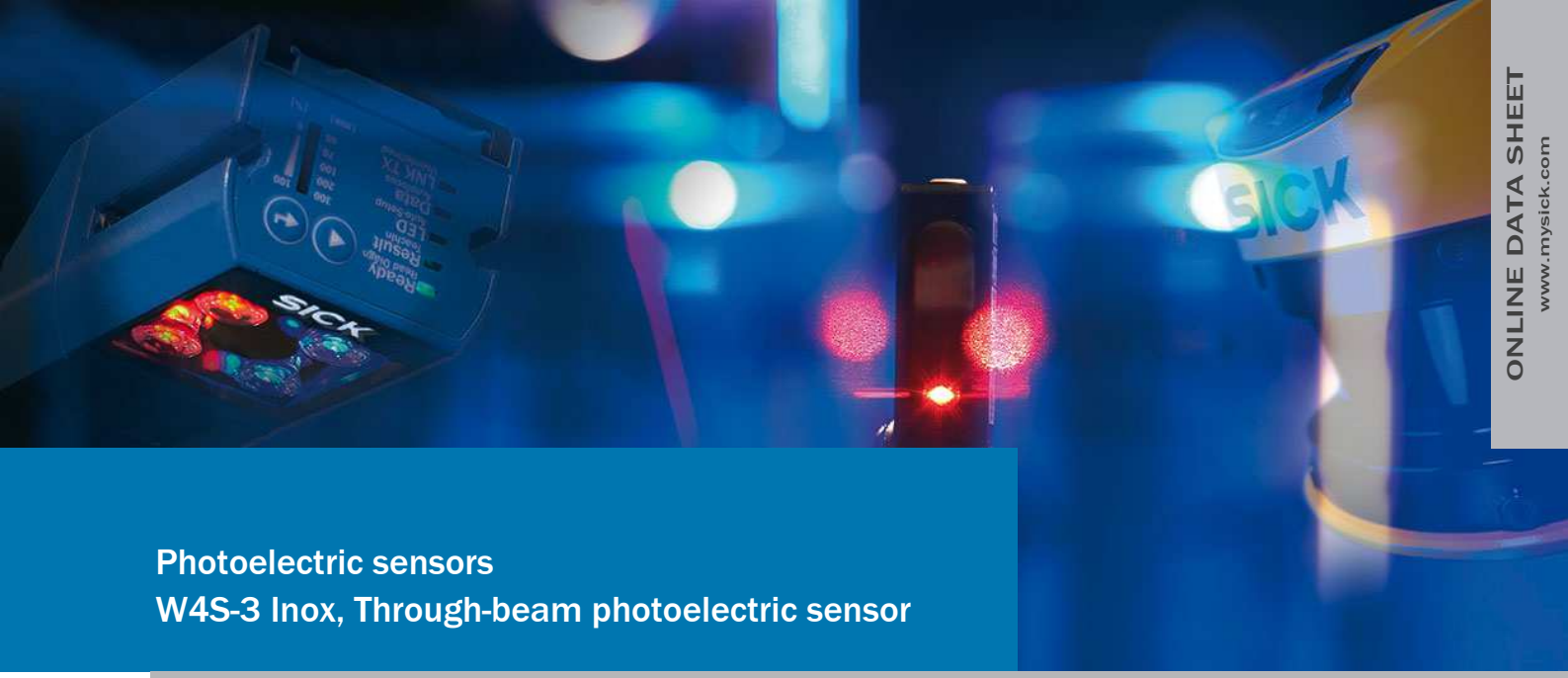


ONLINE DATA SHEET
www.mysick.com

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

WSE4S-3F3430V



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

Model Name > WSE4S-3F3430V
Part No. > 1052885





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 49.2 mm x 22.2 mm
Housing design:	Washdown
Housing design (light emission):	Rectangular
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: 100,000 h at T_U = +25 °C

Mechanics/electronics

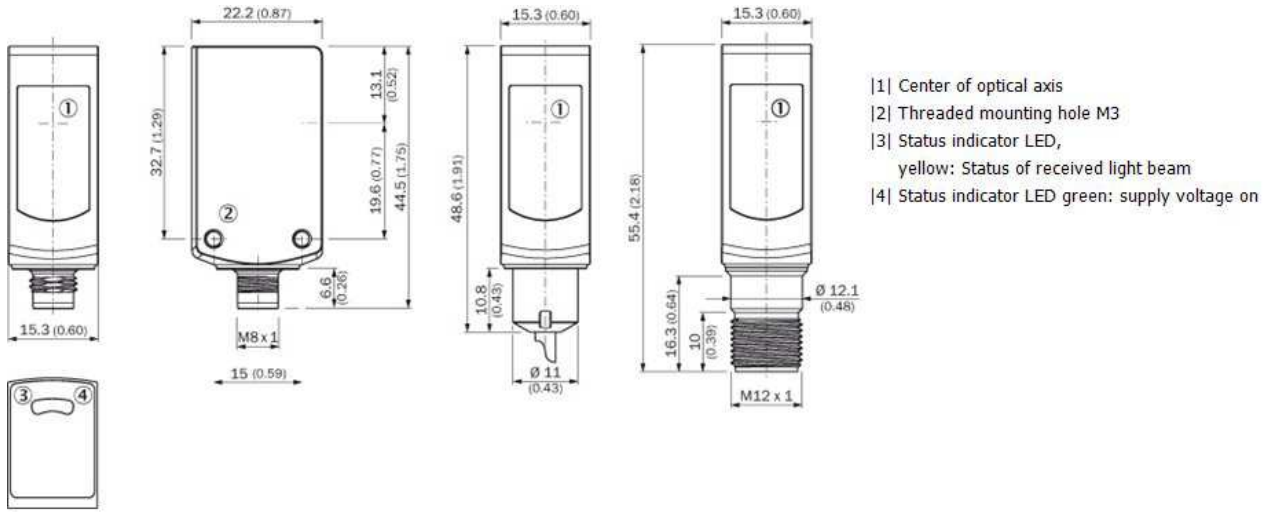
Supply voltage:	10 V DC ... 30 V DC [1]
Ripple:	< 5 Vpp [2]
Power consumption, sender:	≤ 20 mA [3]
Power consumption, receiver:	≤ 20 mA [4]
Power consumption:	≤ 30 mA [5]
Output type:	PNP
Switching mode:	Dark switching

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Output current Imax.:	≤ 100 mA
Response time:	≤ < 0.5 ms [6]
Switching frequency:	1,000 Hz [7]
Connection type::	Cable with connector M12, 4-pin, 150 mm [8] [9]
Cable material:	PVC
Circuit protection:::	A B C [10] [11] [12]
Protection class:	III
Weight:	60 g
Special device:	-
Enclosure rating:	IP 66 IP 67 IP 68 IP 69K
Test input sender off:	TE to 0 V
Ambient operating temperature:	-30 °C ... +70 °C [13]
Ambient storage temperature:	-30 °C ... +75 °C
Part number of individual components:	Receiver, WE4S-3F3430V, 2058709, Sender, WS4S-3D3430V, 2058707
UL File No.:	NRKH.E181493 & NRKH7.E181493
Housing material:	Stainless steel, Stainless steel 316L

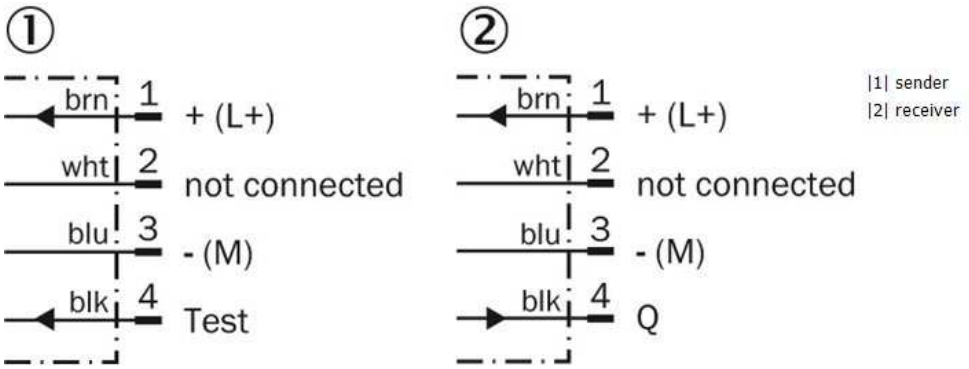
[1] Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A [2] May not exceed or fall below U_V tolerances [3] [4] [5] Without load [6] Signal transit time with resistive load [7] With light/dark ratio 1:1 [8] Tightening torque, max.: 0.7 Nm [9] Do not bend below 0 °C [10] A = V_S connections reverse-polarity protected [11] B = inputs and output reverse-polarity protected [12] C = interference suppression [13] At UV ≤ 24 V and IA < 30 mA

Dimensional drawing

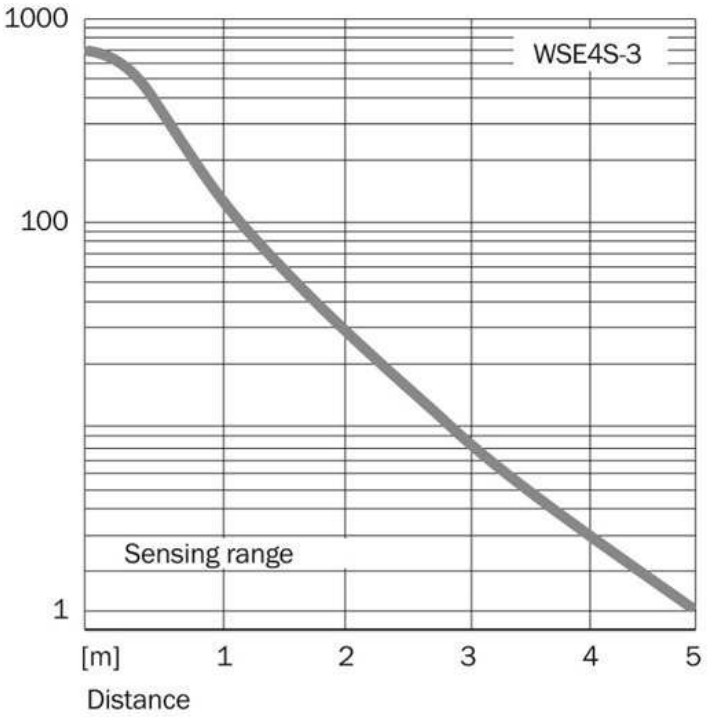


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Connection diagram

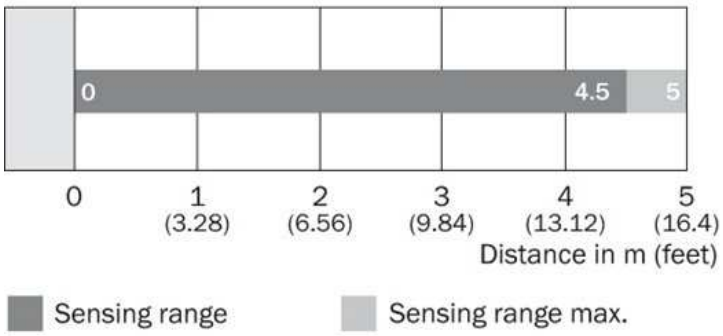


Characteristic curve

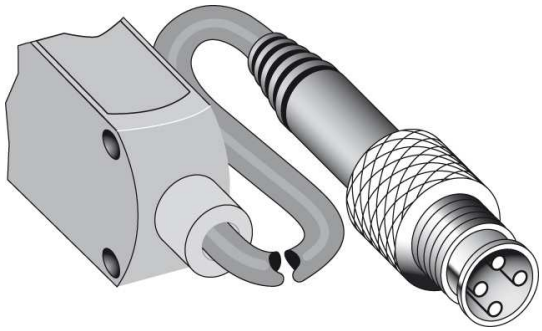


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Sensing range diagram



Connection type



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A4 4c int43

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