

ONLINE DATA SHEET
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Photoelectric sensors
W4S-3 Inox Hygiene, Photoelectric retro-reflective sensor, autocollimation

WL4S-3P3232H



SICK
Sensor Intelligence.

Photoelectric sensors
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Type > WL4S-3P3232H
Part No. > 1048117





Illustration may differ

At a glance

- Hygienic designed stainless steel housing and accessories (316L/1.4404)
- Hygienic mounting using M12-adapter thread or D12-adapter shaft
- IP 66, IP 67, IP 68 and IP 69K enclosure rating and Ecolab certified
- Resistant to a variety of common cleaning and disinfection agents
- Stainless steel teach-in pushbutton with a metal membrane
- PinPoint LED technology provides a highly visible laser-like light spot
- Hygienical designed and chemically resistant reflectors available as accessories

Your benefits

- Smooth hygienic housing and accessories with no grooves or crevices eliminates the potential for bacteria to grow, providing a more hygienic solution.
- Long service life in harsh conditions ensures less downtime and fewer replacement costs
- Quick and easy adjustment via a stainless steel metal membrane teach-in pushbutton
- Quick and easy alignment due to highly visible PinPoint emitter LED

Features

Sensor/detection principle:	Photoelectric retro-reflective sensor, autocollimation
Dimensions (W x H x D):	15.25 mm x 49.2 mm x 22.15 mm
Housing design:	Hygiene
Housing design (light emission):	Rectangular
Sensing range max.:	0 m ... 5 m [1]
Sensing range:	0 m ... 3 m [2]
Type of light:	Visible red light
Light source:	PinPoint LED [3]
Wave length:	650 nm
Teach-in:	Single teach-in button
Adjustment:	Teach-in
Light spot size (distance):	Ø 45 mm (1.5 m)

[1] [2] PL80A [3] Average service life of 100,000 h at T_A = +25 °C

Mechanics/electronics

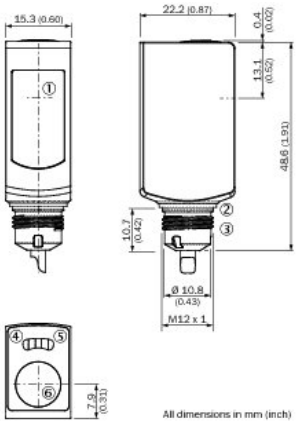
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Supply voltage:	10 V DC ... 30 V DC [1]
Power consumption:	≤ 30 mA [2]
Output type:	PNP
Output function:	Complementary
Switching mode:	Light/dark switching
Output current Imax.:	≤ 100 mA
Response time:	< 0.5 ms [3]
Switching frequency:	1,000 Hz [4]
Connection type:	Cable with M8 male connector, 4-pin, 150 mm [5]
Cable material:	PVC
Circuit protection:::	A B C [6] [7] [8]
Protection class:	III
Weight:	50 g
Polarisation filter:	✓
Housing material:	Stainless steel, Stainless steel 316L
Enclosure rating:	IP 66 IP 67 IP 68 IP 69K
Ambient operating temperature:	-30 °C ... 60 °C, -30 °C ... 70 °C [9]
Ambient storage temperature:	-30 °C ... 75 °C
UL File No.:	FDA, UL No. NRKH.E181493 & cUL No. NRKH7.E181493

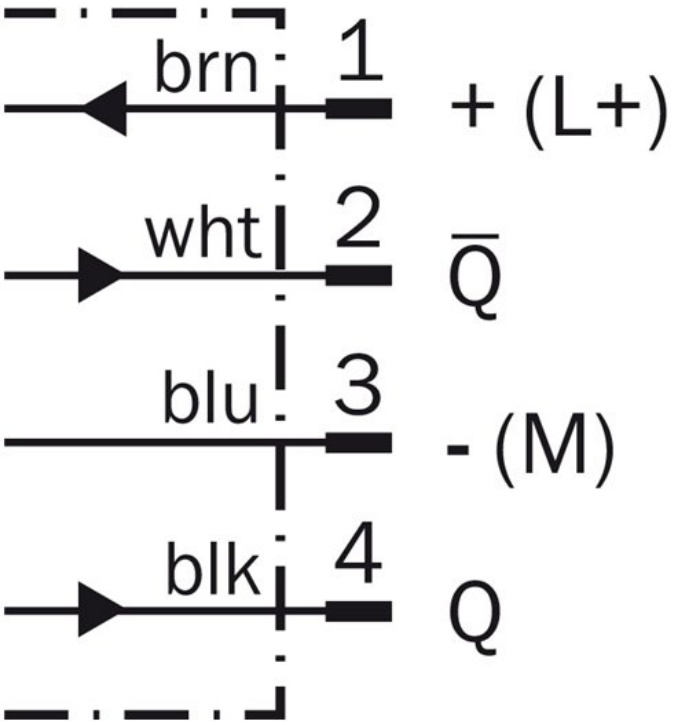
[1] Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A [2] Without load [3] Signal transit time with resistive load [4] With light/dark ratio 1:1 [5] Do not bend below 0 °C [6] A = V_S connections reverse-polarity protected [7] B = inputs and output reverse-polarity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

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Dimensional drawing

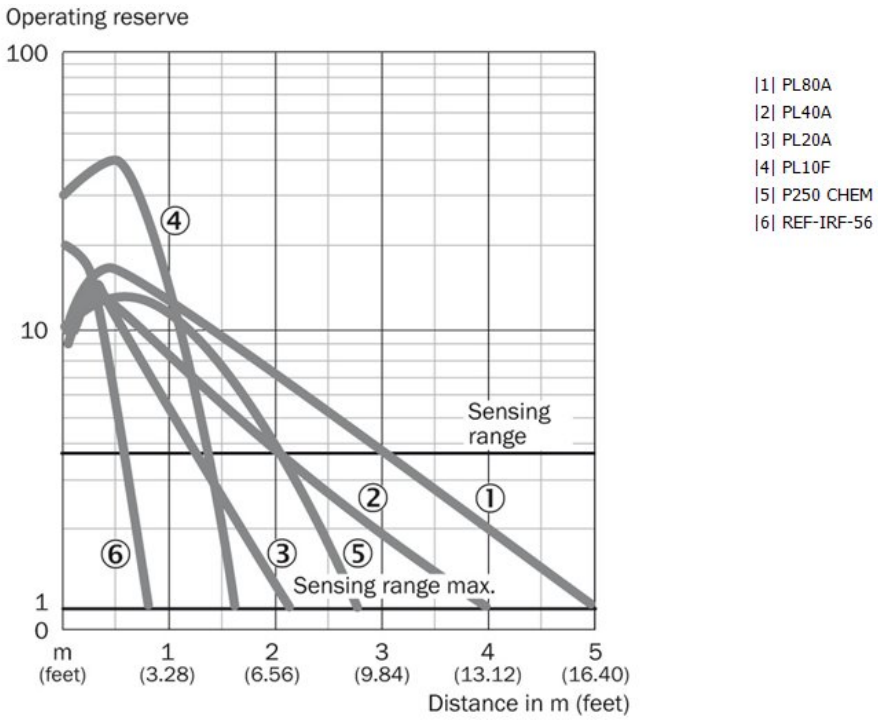


Connection diagram

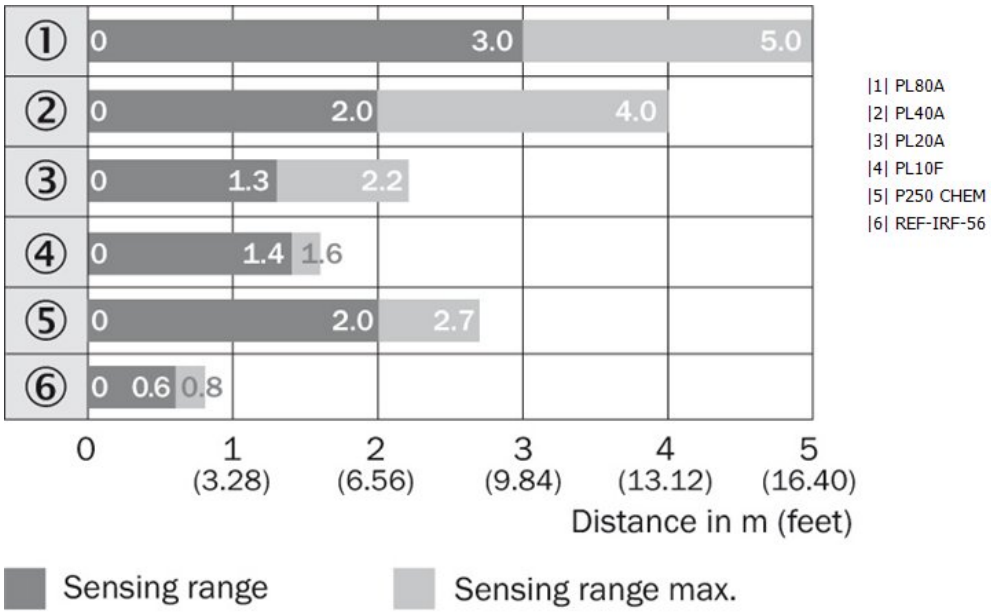


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Characteristic curve

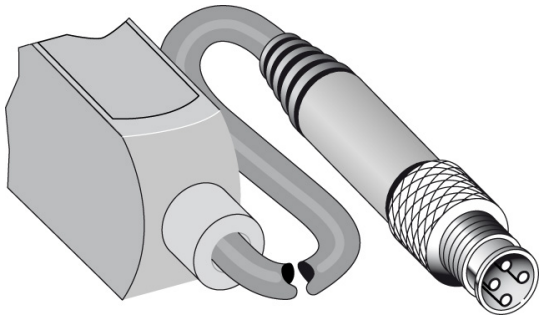


Sensing range diagram



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Connection type



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