



Photoelectric sensors
W4S-3 Inox Hygiene Glass, Photoelectric retro-reflective sensor, autocollimation

WLG4S-3P5132HS04



Model Name > [WLG4S-3P5132HS04](#)
Part No. > [1058974](#)



Illustration may differ

At a glance

- 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
- Reliable detection of all transparent objects in the pharmaceutical and food and beverage industries
- Quick and easy adjustment via a stainless steel metal membrane teach-in pushbutton
- Quick and easy alignment due to highly visible PinPoint emitter LED

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
- Reliable detection of all transparent objects in the pharmaceutical and food and beverage industries
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- 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 63.2 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
Special features:	Light/dark switching via single Teach-in button, indicator LED follows output
Adjustment:	Single teach-in button
Light spot size (distance):	Ø 45 mm (1.5 m)
Continuous threshold adaption:	✓

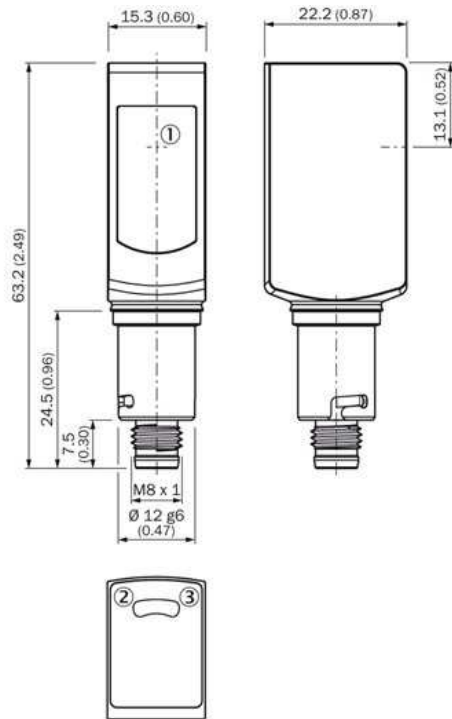
1) 2) PL80A 3) Average service life of 100,000 h at $T_A = +25\text{ °C}$

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	< 5 Vpp ²⁾
Power consumption:	≤ 30 mA ³⁾
Output type:	PNP
Switching mode:	Light/dark switching
Output current I _{max} :	≤ 100 mA
Response time:	< 0.5 ms ⁴⁾
Switching frequency:	± 1,000 Hz ⁵⁾
Connection type:	Connector M8, 3-pin ⁶⁾
Cable material:	PVC
Circuit protection:::	A B ^{7) 8) 9)} C
Protection class:	III
Weight:	140 g
Polarisation filter:	✓
IO-Link:	-
Enclosure rating:	IP 66 IP 67 IP 68 IP 69K
Special feature:	D12 adapter shaft, Detection of transparent objects
Ambient operating temperature:	-30 °C ... +60 °C, -30 °C ... +70 °C ¹⁰⁾
Ambient storage temperature:	-30 °C ... +75 °C
UL File No.:	FDA, UL No. NRKH.E181493 & cUL No. NRKH7.E181493
Mechanical connection:	D12 adapter shaft
Housing material:	Stainless steel, Stainless steel 316L

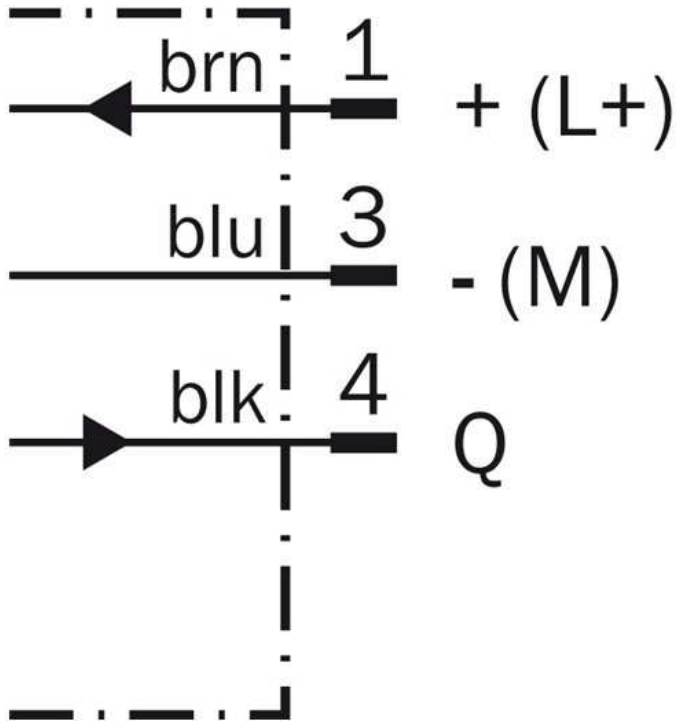
¹⁾ Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Without load ⁴⁾
Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ Tightening torque, max.: 0.6 Nm ⁷⁾ A = V_S connections reverse-polarity protected ⁸⁾ B = inputs and
output reverse-polarity protected ⁹⁾ C = interference suppression ¹⁰⁾ At UV ≤ 24 V and IA < 30 mA

Dimensional drawing



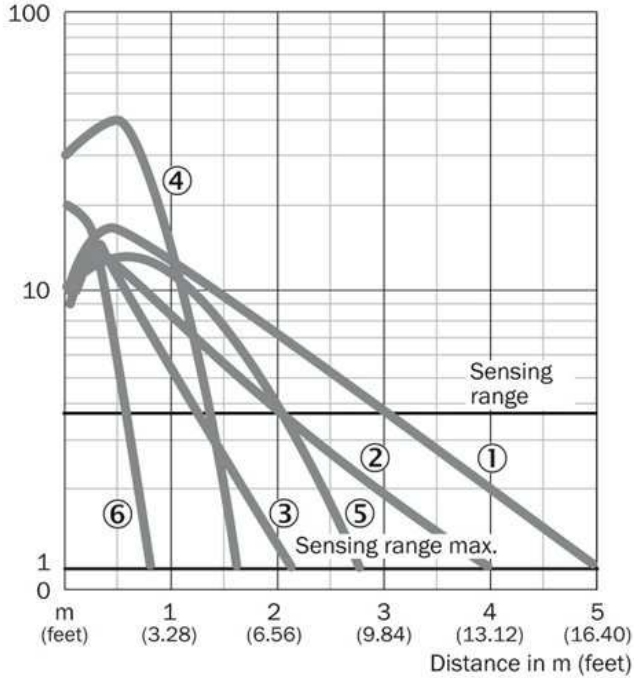
- |1| Center of optical axis
- |2| Status indicator LED green: power on
- |3| Status indicator LED, yellow: Status of received light beam

Connection diagram



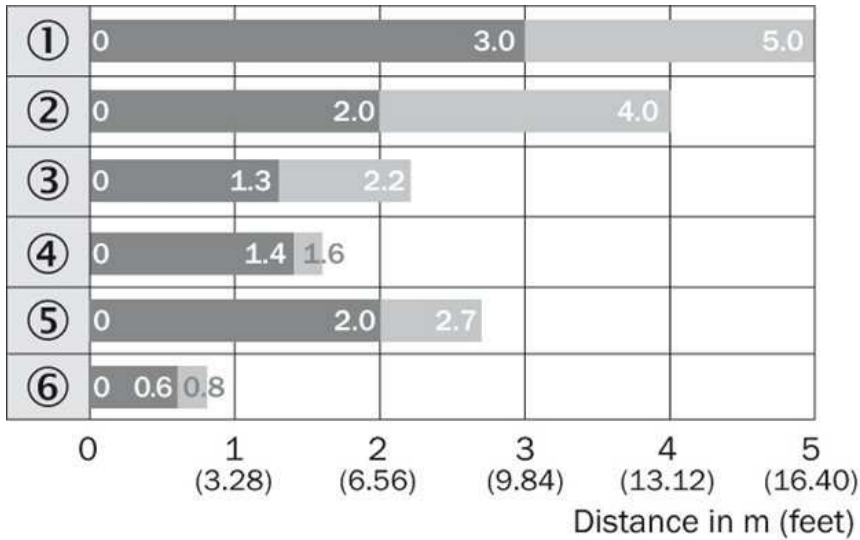
Characteristic curve

Operating reserve



- |1| PL80A
- |2| PL40A
- |3| PL20A
- |4| PL10F
- |5| P250 CHEM
- |6| REF-IRF-56

Sensing range diagram



- |1| PL80A
- |2| PL40A
- |3| PL20A
- |4| PL10F
- |5| P250 CHEM
- |6| REF-IRF-56

■ Sensing range ■ Sensing range max.

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