



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

WLG4S-3P3232H



Model Name > [WLG4S-3P3232H](#)
Part No. > [1048120](#)



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
- PinPoint LED technology provides a highly visible laser-like light spot
- Teach-in stainless steel metal membrane or external teach-in

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
- Quick and easy adjustment via a stainless steel metal membrane teach-in pushbutton
- Quick and easy alignment due to highly visible PinPoint emitter LED
- Remote monitoring and fast diagnostics via IO-Link (optional)



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
Alarm output:	-
Adjustment:	Teach-in
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 $T_A = +25\text{ °C}$

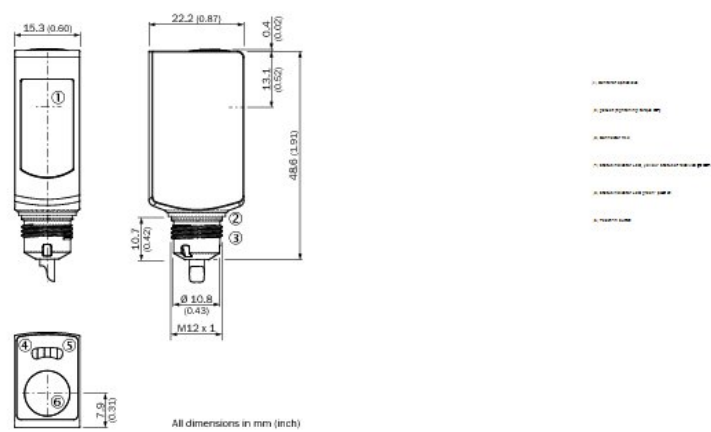
Mechanics/electronics

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

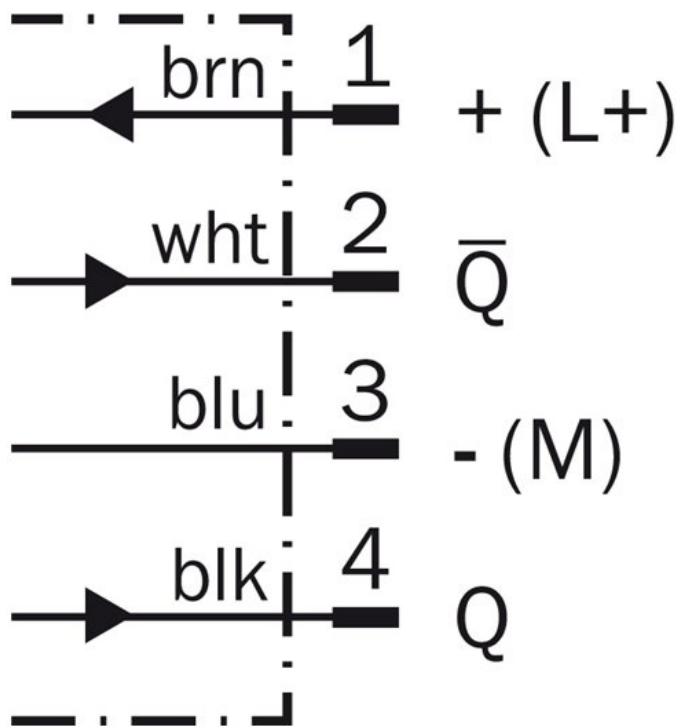
¹⁾ Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A ²⁾ Without load ³⁾ Signal transit time with resistive load ⁴⁾ With

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 $UV \leq 24\text{ V}$ and $IA < 30\text{ mA}$

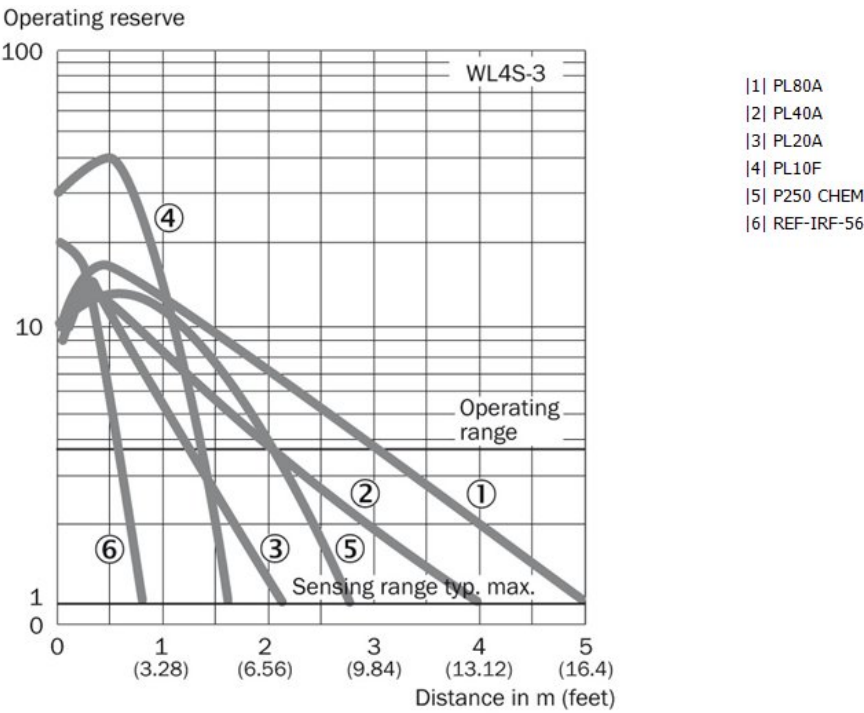
Dimensional drawing



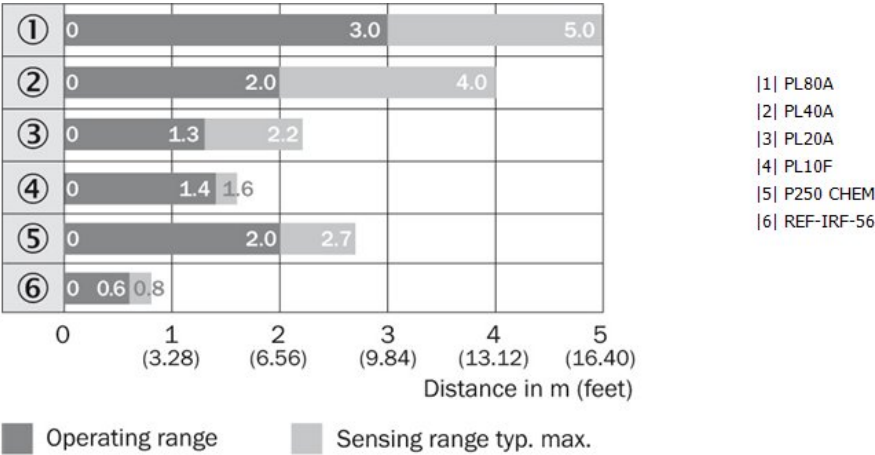
Connection diagram



Characteristic curve

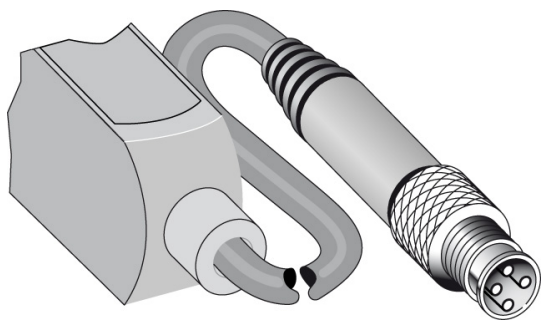


Sensing range diagram



- ① Reflector type PL80A
- ② Reflector type PL40A
- ③ Reflector type PL20A
- ④ Reflector type PL10F
- ⑤ Reflector type P250 CHEM
- ⑥ Reflective tape REF-IRF-56

Connection type



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