

WLG4S-3P2432V

W4S-3 Inox Glass

MINIATURE PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
WLG4S-3P2432V	1054725

Other models and accessories → www.sick.com/W4S-3_Inox_Glass

Illustration may differ



Detailed technical data

Features

Dimensions (W x H x D)	15.25 mm x 49.2 mm x 22.2 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 m 5 m ¹⁾
Sensing range	0 m 3 m ¹⁾
Type of light	Visible red light
Light source	PinPoint LED ²⁾
Light spot size (distance)	Ø 45 mm (1.5 m)
Wave length	650 nm
Adjustment	Single teach-in button
AutoAdapt	✓
Special applications	Hygienic and washdown zones, Detecting transparent objects

¹⁾ Reflector PL80A.

 $^{^{2)}}$ Average service life: 100,000 h at $\rm T_U$ = +25 $^{\circ}\rm C.$

Mechanics/electronics

•	
Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Current consumption	30 mA ³⁾
Switching output	PNP
Output function	Complementary
Switching mode	Light/dark switching
Output current I _{max} .	≤ 100 mA
Response time	< 0.5 ms ⁴⁾
Switching frequency	1,000 Hz ⁵⁾
Attenuation along light beam	> 8 %
Circuit protection	A ⁶⁾ B ⁷⁾ C ⁸⁾
Protection class	III
Weight	45 g
Polarisation filter	✓
Housing material	Stainless steel, Stainless steel V4A (1.4404, 316L)
Optics material	Plastic, PMMA
Enclosure rating	IP66 IP67 IP68 IP69K
Ambient operating temperature	-30 °C +60 °C ⁹⁾
Ambient temperature, storage	-30 °C +75 °C

 $^{^{1)}}$ Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A.

Safety-related parameters

MTTF _D	1,215 years
DC _{avg}	0 %
T _M (mission time)	20 years

Classifications

ECI@ss 5.0	27270902
ECI@ss 5.1.4	27270902
ECI@ss 6.0	27270902
ECI@ss 6.2	27270902
ECI@ss 7.0	27270902

 $^{^{2)}\,\}mathrm{May}$ not exceed or fall below U_{V} tolerances.

³⁾ Without load.

 $^{^{4)}}$ Signal transit time with resistive load.

⁵⁾ With light/dark ratio 1:1.

 $^{^{6)}}$ A = V_S connections reverse-polarity protected.

 $^{^{7)}}$ B = inputs and output reverse-polarity protected.

 $^{^{8)}}$ C = interference suppression.

 $^{^{9)}}$ At UV \leq 24 V and IA < 30 mA.

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ECI@ss 8.0	27270902
ECI@ss 8.1	27270902
ECI@ss 9.0	27270902
ECI@ss 10.0	27270902
ECI@ss 11.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
ETIM 7.0	EC002717
ETIM 8.0	EC002717
UNSPSC 16.0901	39121528

Connection diagram

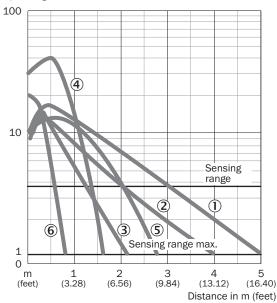
Cd-083

$$\begin{array}{c|c} - & BN & 1 \\ \hline & & + (L+) \\ \hline & WH & 2 & \overline{Q} \\ \hline & & BU & 3 \\ \hline & & & - (M) \\ \hline & & BK & 4 & Q \\ \hline \end{array}$$

Characteristic curve

WL4S-3, WLG4S-3, 5 m

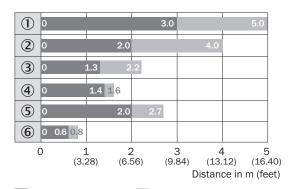
Operating reserve



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

Sensing range diagram

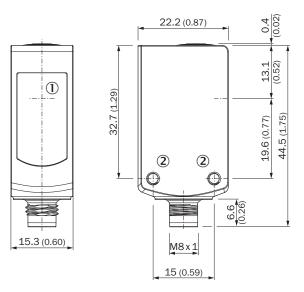
WL4S-3, WLG4S-3, 5 m

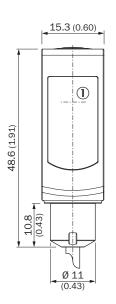


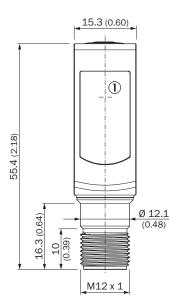
- Sensing range
- Sensing range max.
- ① Reflector PL80A
- ② Reflector PL40A
- 3 Reflector PL20A
- 4 PL10F reflector
- ⑤ Reflector P250 CHEM
- ® Reflective tape REF-IRF-56

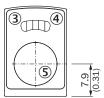
Dimensional drawing (Dimensions in mm (inch))

WL4S-3V, WLG4S-3V, with single teach-in button









- ① Center of optical axis
- ② Threaded mounting hole M3
- 3 LED indicator yellow: Status of received light beam
- 4 LED indicator green: Supply voltage active
- ⑤ Teach-in button

Recommended accessories

Mounting brackets and plates

Mounting brackets

Plug connectors and cables

Connecting cables

Reflectors

Special reflectors

Other models and accessories → www.sick.com/W4S-3_Inox_Glass

Brief description	Туре	Part no.
 Description: Mounting bracket for floor mounting Material: Stainless steel Details: Stainless steel 1.4571 Items supplied: Mounting hardware included Suitable for: W4-3 	BEF-W4-B	2051630

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Brief description	Туре	Part no.
 Connection type head A: Female connector, M12, 4-pin, straight Connection type head B: Flying leads Authorizations: Ecolab Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PP Description: Sensor/actuator cable, unshielded Connection systems: Flying leads Note: This product is generally resistant to chemical cleaning agents (see ECOLAB) and other chemical compounds such as H2O2 and CH2O2. Before permanent installation is carried out, the material's resistance to the cleaning agent being used must be checked., Resistant against lactic acid & hydrogen peroxide (H2O2) Application: Hygienic and washdown zones, Drag chain operation 	DOL-1204-G05MRN	6058476
Brief description	Туре	Part no.
 Description: Chemically resistant, screw connection Dimensions: 52 mm 62 mm Ambient operating temperature: -20 °C +140 °C 	P250 CHEM	5321097

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