

WLG4S-3F2235V

W4S-3 Inox Glass

MINIATURE PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
WLG4S-3F2235V	1045098

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

Illustration may differ



Detailed technical data

Features

Sensor/ detection principle	Photoelectric retro-reflective sensor, autocollimation	
Dimensions (W x H x D)	15.25 mm x 44.5 mm x 22.2 mm	
Housing design	Washdown	
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	Cable ³⁾	
AutoAdapt	√	
Special applications	Hygienic and washdown zones, Detecting transparent objects	

¹⁾ Reflector PL80A.

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

 $^{^{\}rm 3)}$ External teach-in: pulse > 2 s with voltage Uv with PNP and M with NPN.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Current consumption	30 mA ³⁾
Switching output	PNP
Switching mode	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 %
Connection type	Male connector M8, 4-pin ⁶⁾
Circuit protection	A ⁷⁾ B ⁸⁾ C ⁹⁾
Protection class	III
Weight	40 g
Polarisation filter	✓
Housing material	Stainless steel, Stainless steel V4A (1.4404, 316L)
Optics material	Plastic, PMMA
Enclosure rating	IP66 IP67 IP68 IP69K ¹⁰⁾
Special feature	Detecting transparent objects
Ambient operating temperature	-30 °C +60 °C ¹¹⁾
Ambient temperature, storage	-30 °C +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

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

Safety-related parameters

MTTF _D	1,232 years
DC _{avg}	0 %

Classifications

ECI@ss 5.0	27270902
ECI@ss 5.1.4	27270902

 $^{^{2)}}$ 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⁾ Max. tightening torque: 0.6 Nm.

 $^{^{7)}}$ A = V_S connections reverse-polarity protected.

 $^{^{8)}}$ B = inputs and output reverse-polarity protected.

 $^{^{9)}}$ C = interference suppression.

 $^{^{10)}}$ Only in case of correctly mounted IP69K connecting cable.

 $^{^{11)}}$ At UV \leq 24 V and IA < 30 mA.

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ECI@ss 6.0	27270902
ECI@ss 6.2	27270902
ECI@ss 7.0	27270902
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

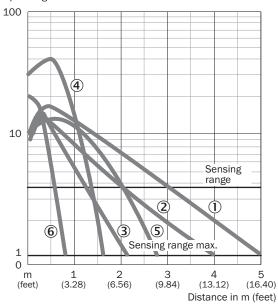
Connection diagram

Cd-092

Characteristic curve

WL4S-3, WLG4S-3, 5 m

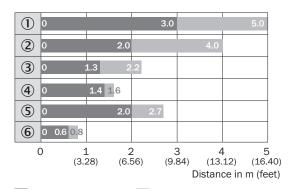
Operating reserve



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

Sensing range diagram

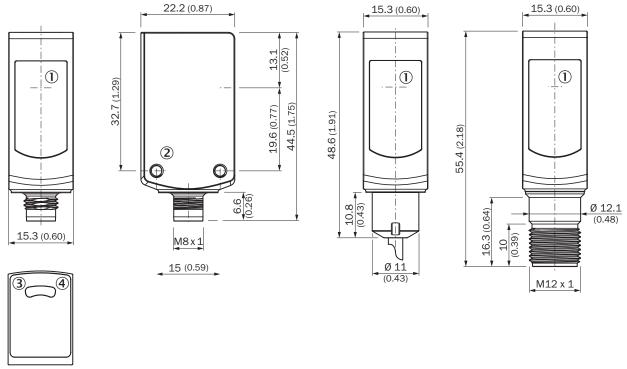
WL4S-3, WLG4S-3, 5 m



- Sensing range
- Sensing range max.
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Dimensional drawing (Dimensions in mm (inch))

WL4S-3V, WLG4S-3V, without 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

Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brad	ckets and plates		
A	Mounting bracket for floor mounting, Stainless steel 1.4571, mounting hardware included	BEF-W4-B	2051630
Plug connecto	ors and cables		
	Head A: female connector, M8, 4-pin, straight Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m This product is generally resistant to chemical cleaning agents (see ECOLAB). Please do not use cleaning agents of any other Kind., Not resistant against lactic acid & hydrogen peroxide (H2O2)	DOL-0804-G05MNI	6059194
Reflectors			
	Chemically resistant, screw connection, 52 mm x 62 mm, plastic, Screw-on, 2 hole mounting	P250 CHEM	5321097

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