

WLG4S-3P3232V W4

MINIATURE PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
WLG4S-3P3232V	1046448

Other models and accessories → www.sick.com/W4

Illustration may differ





Detailed technical data

Features

Photoelectric retro-reflective sensor
Autocollimation
0 m 5 m ¹⁾
0 m 3 m ¹⁾
Yes
PinPoint LED ²⁾
Visible red light
Ø 45 mm (1.5 m)
650 nm
Single teach-in button
Hygienic and washdown zones, Detecting transparent objects
Washdown
√

¹⁾ Reflector PL80A.

Safety-related parameters

MTTF _D	1,215 years
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²⁾ Average service life: 100,000 h at T_U = +25 °C.

DC _{avg}	0 %
T_{M} (mission time)	20 years

Electrical data

10 V DC 30 V DC ¹⁾
< 5 V _{pp} ²⁾
30 mA ³⁾
III
PNP
Light/dark switching
≤ 100 mA
< 0.5 ms ⁴⁾
1,000 Hz ⁵⁾
> 8 %
Complementary
A, B, C ^{6) 7) 8)}
Detecting transparent objects

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

Mechanical data

Housing	Rectangular
Design detail	Slim
Dimensions (W x H x D)	15.25 mm x 49.2 mm x 22.2 mm
Connection	Cable with M8 male connector, 4-pin ^{1) 2)}
Connection detail	
Length of cable (L)	150 mm ²⁾
Material	
Housing	Stainless steel, Stainless steel V4A (1.4404, 316L)
Front screen	Plastic, PMMA
Cable	PVC
Weight	50 g

¹⁾ Max. tightening torque: 0.6 Nm.

Ambient data

Enclosure rating	IP66

 $^{^{1)}}$ At UV \leq 24 V and IA < 30 mA.

 $^{^{2)}}$ 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⁾ A = V_S connections reverse-polarity protected.

⁷⁾ B = inputs and output reverse-polarity protected.

⁸⁾ C = interference suppression.

²⁾ Do not bend below 0 °C.

	IP67 IP68 IP69K
Ambient operating temperature	-30 °C +60 °C ¹⁾
Ambient temperature, storage	-30 °C +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

 $^{^{1)}}$ At UV \leq 24 V and IA < 30 mA.

Classifications

ECLASS 5.0	27270902
ECLASS 5.1.4	27270902
ECLASS 6.0	27270902
ECLASS 6.2	27270902
ECLASS 7.0	27270902
ECLASS 8.0	27270902
ECLASS 8.1	27270902
ECLASS 9.0	27270902
ECLASS 10.0	27270902
ECLASS 11.0	27270902
ECLASS 12.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
ETIM 7.0	EC002717
ETIM 8.0	EC002717
UNSPSC 16.0901	39121528

Connection diagram

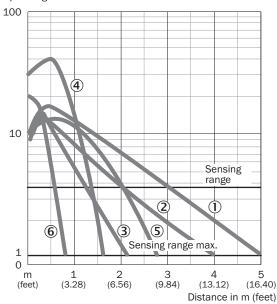
Cd-083

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

Characteristic curve

WL4S-3, WLG4S-3, 5 m

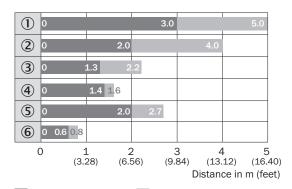
Operating reserve



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

Sensing range diagram

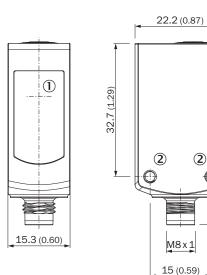
WL4S-3, WLG4S-3, 5 m

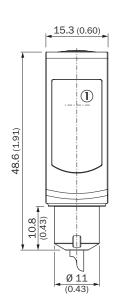


- Sensing range
- Sensing range max.
- ① Reflector PL80A
- ② Reflector PL40A
- 3 Reflector PL20A
- 4 PL10F reflector
- ⑤ Reflector P250 CHEM
- ® Reflective tape REF-IRF-56

Dimensional drawing (Dimensions in mm (inch))

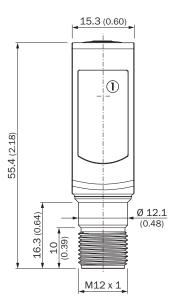
WL4S-3V, WLG4S-3V, with single teach-in button

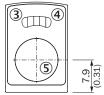




13.1

19.6 (0.77)





- 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

Other models and accessories → www.sick.com/W4

	Brief description	Туре	Part no.
Mounting brad	ckets and plates		
No. of the second	Mounting bracket for floor mounting, Stainless steel 1.4571, mounting hardware included	BEF-W4-B	2051630
Plug connecto	ors and cables		
	Connection type head A: Female connector, M8, 4-pin, straight Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Connection systems: Flying leads Note: 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 kydrogen peroxide (H2O2) Application: Hygienic and washdown zones	DOL-0804-G05MNI	6059194

	Brief description	Туре	Part no.
Reflectors			
	Chemically resistant, screw connection, 52 mm x 61 mm, plastic, Screw-on, 2 hole mounting	P250 CHEM	5321097

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