

WL9G-3P2232

W9-3 Glass

PHOTOELECTRIC SENSORS





Illustration may differ



Ordering information

Туре	Part no.
WL9G-3P2232	1049082

Other models and accessories → www.sick.com/W9-3_Glass

Detailed technical data

Features

Sensor/detection principle	Photoelectric retro-reflective sensor, autocollimation
Dimensions (W x H x D)	12.2 mm x 49.8 mm x 23.6 mm
Housing design (light emission)	Rectangular
Mounting hole	M3
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	✓

¹⁾ Reflector PL80A.

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

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Power consumption	20 ³⁾
Output type	PNP ⁴⁾
Output function	Complementary
Switching mode	Light/dark switching ⁴⁾
Output current I _{max.}	100 5)
Response time	< 0.5 ms ⁶⁾
Switching frequency	1,000 Hz ⁷⁾
Connection type	Connector M8, 4-pin
Circuit protection	A ⁸⁾ B ⁹⁾ C ¹⁰⁾
Protection class	III
Weight	13 g
Polarisation filter	✓
Housing material	Plastic, VISTAL®, Plastic, PMMA
Optics material	Plastic, PMMA
Enclosure rating	IP66 IP67 IP69K
Special feature	Detecting transparent objects
Ambient operating temperature	-40 °C +60 °C
Ambient storage temperature	-40 °C +75 °C
UL File No.	NRKH.E181493

 $^{^{1)}\,\}mathrm{Limit}$ values when operated in short-circuit protected network: max. 8 A.

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
ECI@ss 8.0	27270902
ECI@ss 8.1	27270902

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

³⁾ Without load.

⁴⁾ Q = light switching.

⁵⁾ At and above Tu 50 °C, a max. load current of Imax. = 50 mA is permitted.

⁶⁾ Signal transit time with resistive load.

⁷⁾ With light/dark ratio 1:1.

 $^{^{8)}}$ A = V_S connections reverse-polarity protected.

 $^{^{9)}}$ B = inputs and output reverse-polarity protected.

¹⁰⁾ C = interference suppression.

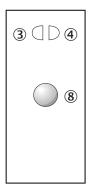
WL9G-3P2232 | W9-3 Glass

PHOTOELECTRIC SENSORS

ECI@ss 9.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
UNSPSC 16.0901	39121528

Adjustments possible

Single teach-in button



③ LED indicator yellow: Status of received light beam

④ LED indicator green: power on

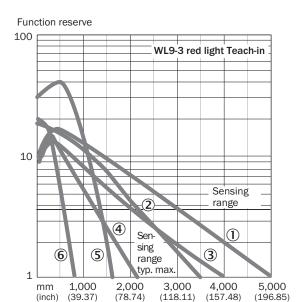
® Teach-in button

Connection diagram

Cd-084

Characteristic curve

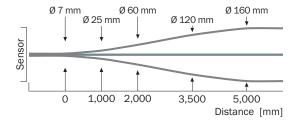
WL9G-3



Distance

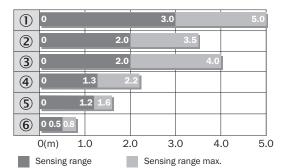
- ① Reflector PL80A
- ② Reflector P250F
- ③ Reflector PL40A
- 4 Reflector PL20F
- ⑤ PL10F reflector
- © Reflective tape REF-IRF-56

Light spot size



Sensing range diagram

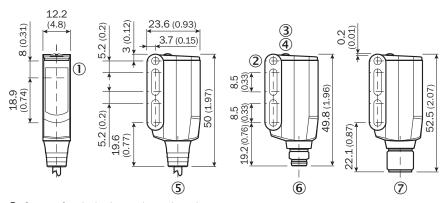
WL9G-3



- ① Reflector PL80A
- ② Reflector P250F
- ③ Reflector PL40A
- 4 Reflector PL20F
- ⑤ PL10F reflector
- ® Reflective tape REF-IRF-56

Dimensional drawing (Dimensions in mm (inch))

WL9-3, WSE9-3



- ① Center of optical axis, sender and receiver
- ② Mounting hole M3 (Ø 3.1 mm)
- ③ LED indicator yellow: Status of received light beam
- 4 LED indicator green: power on
- ⑤ Connecting cable or connector
- 6 Connector M8, 4-pin
- 7 Male connector M12, 4-pin

Recommended accessories

Other models and accessories → www.sick.com/W9-3_Glass

DEF WILL THE	
ping BEF-KHS-N08	2051607
BEF-WN-W9-2	2022855
BEF-AP-W9	2022734
BEF-GPM3-W9	4066039
DOL-0804-G02M	6009870
DOL-0804-G05M	6009872
DOL-0804-W02M	6009871
DOL-0804-W05M	6009873
DOS-0804-G	6009974
DOS-0804-W	6009975
nm BL-9-2	4033253
unt- PL80A	1003865
PM- P250F	5308843
PM- PL10F	5311210
	BEF-AP-W9 BEF-GPM3-W9 DOL-0804-G02M DOL-0804-W02M DOL-0804-W05M DOS-0804-G DOS-0804-W BL-9-2 unt-PL80A PM-P250F

PHOTOELECTRIC SENSORS

	Brief description	Туре	Part no.
	Fine triple reflector, screw connection, suitable for laser sensors, 38 mm x 16 mm, PM-MA/ABS, Screw-on, 2 hole mounting	PL20F	5308844
0	Fine triple reflector, screw connection, suitable for laser sensors, 56 mm x 28 mm, PM-MA/ABS, Screw-on, 2 hole mounting	PL30F	5326523
	Fine triple reflector, screw connection, suitable for laser sensors, 76 mm x 45 mm, PM-MA/ABS, Screw-on, 2 hole mounting	PL81-1F	5325060
	Suitable for laser sensors, self-adhesive, cut, see alignment note, $56.3 \ \text{mm} \times 56.3 \ \text{mm}$, self-adhesive	REF-AC1000-56	4063030
1	Fine triple reflector, chemically resistant, screw connection, 18 mm x 18 mm, Plastic, Screw-on, 2 hole mounting	PL10F CHEM	5321636
	Chemically resistant, screw connection, suitable for laser sensors, $16\ \text{mm}\ \text{x}\ 38\ \text{mm}$, Plastic, Screw-on, $2\ \text{hole}$ mounting	PL20F-CHEM	5326089
	Stainless steel reflector, hygienic design, chemically resistant, enclosure rating IP69K, D12 adapter shaft, 25 mm x 25 mm, Stainless steel V4A (1.4404, 316L), D12-adapter shaft	PLH25-D12	2063404
	Stainless steel reflector, hygienic design, chemically resistant, Enclosure rating IP 69K, M12-adapter thread, 25 mm x 25 mm, Stainless steel V4A (1.4404, 316L), M12-adapter thread	PLH25-M12	2063403
, ,	Stainless steel reflector, washdown design, chemically resistant, IP 69K enclosure rating, screw connection, 14 mm x 14 mm, Stainless steel V4A (1.4404, 316L), Screw-on, 2 hole mounting	PLV14-A	2063405

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