

WL8G-P2231







Photoelectric sensors W8G, Photoelectric retro-reflective sensor, autocollimation

Model Name > WL8G-P2231
Part No. > 6033188



At a glance

- Autocollimation
- · Standard miniature housing with M3 threaded mounting holes
- · Light/dark switching selectable via rotary switch
- · Adjustable sensing range
- · All necessary accessories (BEF-W100-A and P250) are included with delivery

Your benefits

- Reliable object detection of transparent objects even at the shortest distances (no blind spot) or through narrow gaps
- · Highly visible light spot makes alignment quick and easy
- Reliable detection of all materials, including small and/or transparent objects, min. attenuation 15 %
- All necessary accessories (bracket and reflector) are included with delivery, reducing installation and procurement costs
- · M3 mounting hole provides quick installation



Illustration may differ

Features

Sensor/detection principle: Photoelectric retro-reflective sensor, autocollimation

Dimensions (W x H x D):

Housing design (light emission):

Sensing range max.:

Sensing range:

0 ... 1.7 m²

Type of light:
Light source:

Wave length:

Continue of the first transfer of the first

Alarm output: Focus adjustable: -

Adjustment: Potentiometer, 270 $^{\circ}$ Light spot size (distance): Ø 70 mm (2 m)

Mechanics/electronics

10 V DC ... 30 V DC ¹⁾ ± 10 % ²⁾ Supply voltage:

Ripple: \leq 30 mA $^{3)}$ Power consumption: **PNP** Switching output:

Switching output: Light/dark-switching Output characteristic: Open collector Switching mode selector: Manually selectable Signal voltage PNP HIGH/LOW: Approx. VS - 1.8 V/0 V

Output current Imax.: ≤ 0.5 m̃s ⁴⁾ Response time: 1,000 Switching frequency: Attenuation along light beam: ≤ 20 %

Connector M8, 4-pin A, B, D 6) 7) 8) Connection type:

Circuit protection:::

Weight: 10 g Polarisation filter: Front screen heating: AS-Interface-Chip:

Housing material: ABS, Plastic **PMMA** Optics material: Enclosure rating:

Items supplied: Stainless steel mounting bracket (1.4301/304) BEF-W100-A, Reflector

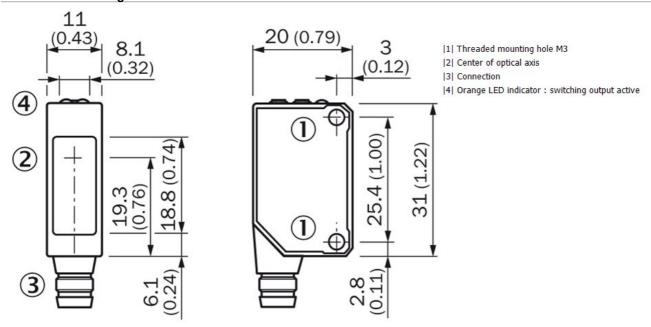
P250F

Special feature: For transparent objects

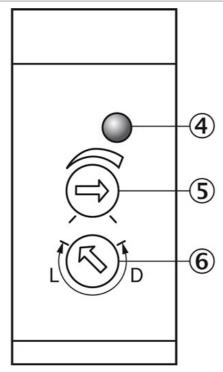
Ambient operating temperature: -25 °C ... 55 °C Ambient storage temperature: -40 °C ... 70 °C

¹⁾ Limit values, operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of V tolerances 3) Without load 4) Signal transit time with resistive load 5) With light/dark ratio 1:1 6) A = V connections reverse-polarity protected 7) B = inputs and output reverse-polarity protected 8) D = outputs overcurrent and short-circuit protected

Dimensional drawing

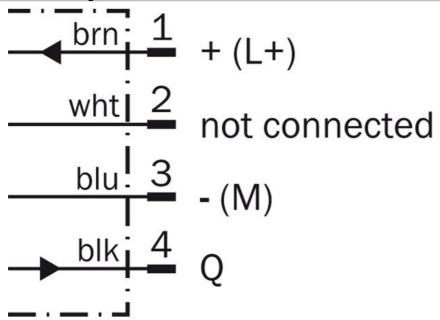


Adjustments possible

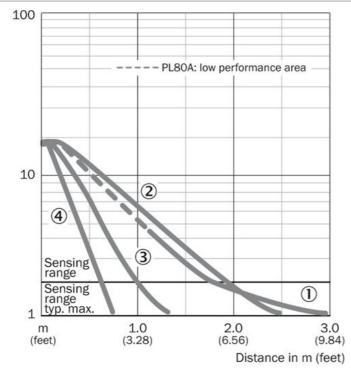


- |4| Orange LED indicator: switching output active
- |5| Sensitivity adjustment
- |6| Light/ dark rotary switch L = light switching, D = dark switching

Connection diagram



Characteristic curve



Sensing range diagram



Sensing range typ. max.

Reflector type

Sensing range

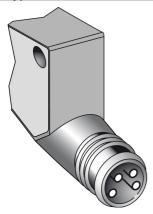
① PL80A

② P250F

③ PL20A

4 PL10F

Connection type



Australia

Phone +61 3 9457 0600 1800 334 802 - tollfree

E-Mail sales@sick.com.au

Belgium/Luxembourg Phone +32 (0)2 466 55 66

E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900 E-Mail sac@sick.com.br

Canada

Phone +1(952) 941-6780 1 800-325-7425 - tollfree

E-Mail info@sickusa.com

Ceská Republika

Phone +420 2 57 91 18 50

E-Mail sick@sick.cz

China

Phone +86 4000 121 000 E-Mail info.china@sick.net.cn Phone +852-2153 6300 E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00 E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301 E-Mail kundenservice@sick.de

España

Phone +34 93 480 31 00 E-Mail info@sick.es

France

Phone +33 1 64 62 35 00 F-Mail_info@sick_fr

Great Britain

Phone +44 (0)1727 831121 E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333 E-Mail info@sick-india.com

Israel

Phone +972-4-6801000 E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41 E-Mail info@sick.it

Japan

Phone +81 (0)3 3358 1341 E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680 E-Mail office@sick.hu

Nederlands

Phone +31 (0)30 229 25 44 E-Mail info@sick.nl Norge

Phone +47 67 81 50 00 E-Mail austefjord@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0

E-Mail office@sick.at

Polska

Phone +48 22 837 40 50

E-Mail info@sick.pl

România

Phone +40 356 171 120 E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30 E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39 E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732 E-Mail admin@sicksgp.com.sg

Sloveniia

Phone +386 (0)1-47 69 990 E-Mail office@sick.si

South Africa

Phone +27 11 472 3733 E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4 E-Mail info@sickkorea.net

Suomi

Phone +358-9-25 15 800 E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00 E-Mail info@sick.se

Taiwan

Phone +886-2-2375-6288 E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00 E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 8865 878 E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780 1 800-325-7425 - tollfree E-Mail info@sickusa.com

More representatives and agencies

at www.sick.com



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for sick manufacturer:

Other Similar products are found below:

6-020-768 PL20A GRL18-P2437 GRSE18-P2422 IM05-0B8NS-ZT1 IM08-02BPS-ZWK IM08-1B5PS-ZT1 IME18-05BPSZW2K IME1812NPSZC0K KT6W-2P5116 GRSE18-P2447 GRTE18-P2412 GRTE18-P2442 IM30-15NPS-ZW1 IME12-04NPSZW2K IME1208NPSZW2S KTM-MB31111P VTE18-4N2212 VTE18-4P8740 LL3-TB01 MZT8-28VPS-KP0 WL11-2P2430 WLL180T-P434 WL260R270 VTF18-4P1612 VTF-18-4N1240 VL180-2P42436 WTE280-2P1131 WTE11-2P2432 CM30-25NNP-EC1 CM18-08BNP-EW1 CM1808BPP-EW1 CM18-12NNP-EC1 CM18-12NPP-EW1 CM30-16BPP-EC1 CM30-25NPP-EW1 E100-A2A22C05A GRL18-P1137 KUP0608-S KUP-0610-F MM12-60APS-ZUK DFS60B-S1PA10000 GRL18-P1132 WL150-P430 WSE11-2N2430 WSE4-3P2230 WL2SG2F3235 IQ40-40NPPKC0K IQ40-20BPPKC0K IMB30-20NPPVC0S