Photoelectric sensors W8G, Photoelectric retro-reflective sensor, autocollimation

WL8G-N1131







 Model Name
 > WL8G-N1131

 Part No.
 > 6033183

## 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:      |
|----------------------------------|
| Dimensions (W x H x D):          |
| Housing design (light emission): |
| Sensing range max.:              |
| Sensing range:                   |
| Type of light:                   |
| Light source:                    |
| Wave length:                     |
| Alarm output:                    |
| Focus adjustable:                |
| Adjustment:                      |
| Light spot size (distance):      |
|                                  |

Photoelectric retro-reflective sensor, autocollimation 11 mm x 31 mm x 20 mm Rectangular, Slim 0 m ... 3 m<sup>1)</sup> 0 m ... 1.7 m<sup>2)</sup> Visible red light LED<sup>3)</sup> 650 nm --Potentiometer, 270° Ø 70 mm (2 m)

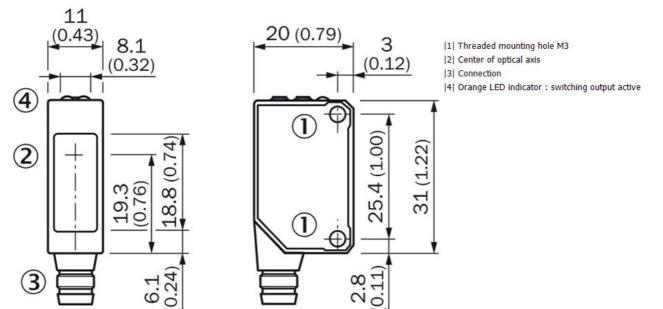
## **Mechanics/electronics**

| Mechanics/electronics  | 1)   |
|--|--|
| Supply voltage:  | 10 V DC <sub>2</sub> 30 V DC <sup>1)</sup>   |
| Ripple:  | $\pm 10\%^{2}$   |
| Power consumption:   | ≤ 30 mA <sup>3)</sup>  |
| Switching output:  | NPN  |
| Switching output:  | Light/dark-switching   |
| Output characteristic:   | Open collector   |
| Switching mode selector:   | Manually selectable  |
| Signal voltage NPN HIGH/LOW:   | Approx. VS/< 1.8 V   |
| Output current Imax.:  | ≤ 100 mA   |
| Response time:   | $\leq 0.5 \text{ ms} \frac{4}{5}$  |
| Switching frequency:   | 1,000 Hz <sup>5)</sup>   |
| Attenuation along light beam:  | ≤ 20 %   |
| Connection type:   | Cable, 3-wire, 2 m <sup>6)</sup>   |
| Cable material:  | PVC  |
| Circuit protection:::  | A, B, D <sup>7) 8) 9)</sup>  |
| Weight:  | 50 g   |
| Polarisation filter:   | $\checkmark$   |
| Front screen heating:  | - ·  |
| AS-Interface-Chip:   | - ·  |
| Housing material:  | ABS, Plastic   |
| Optics material:   | PMMA   |
| Enclosure rating:  | IP 67  |
| 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)<br>Limit values, operation in short-circuit protected network max<br>5) 6) 7) | $^{(1)}$ S A $^{(2)}$ May not exceed or fall short of V tolerances $^{(3)}$ Without load $^{(4)}$ Signal transit time with resistive $^{(3)}$ S $^{(3)}$ |

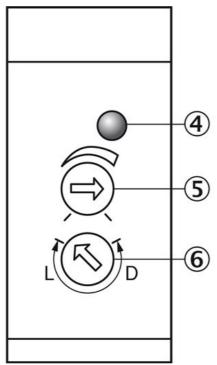
load <sup>5)</sup> With light/dark ratio 1:1 <sup>6)</sup> Do not bend below 0 °C <sup>7)</sup> A = V<sub>S</sub> connections reverse-polarity protected <sup>8)</sup> B = inputs and output reverse-polarity protected <sup>9)</sup> D =

outputs overcurrent and short-circuit protected

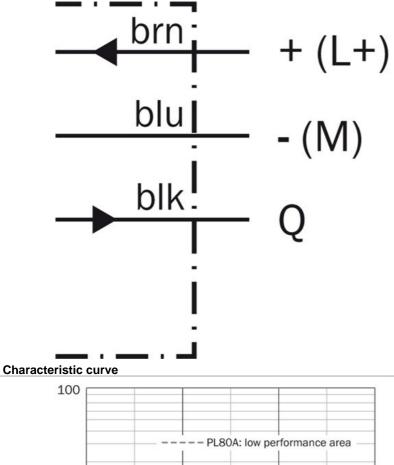
## **Dimensional drawing**

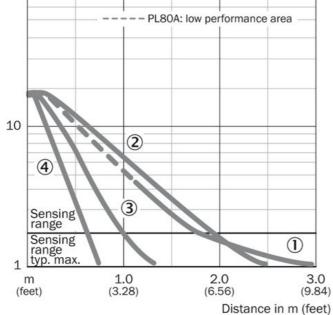


Adjustments possible

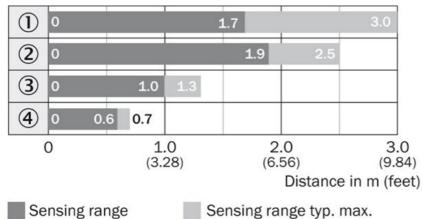


- 4 Orange LED indicator : switching output active
- |5| Sensitivity adjustment
- |6| Light/ dark rotary switch L =
  - light switching, D = dark switching





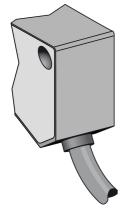
## Sensing range diagram



## **Reflector type**

- 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 E-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

Slovenija 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 CSM-WP11122P GRL18-P2437 IM05-0B8NS-ZT1 IM12-04BPS-ZC1 KT6W-2P5116 GRSE18-P2442 GRSE18-P2447 GRTE18-P2412 IM30-15NPS-ZW1 IME08-02BPSZT0S IME08-2N5PSZT0K KTM-MB31111P VTE18-4N2212 WTB11-2P2431 WLL180T-P434 VTF18-4P1612 VTF-18-4N1240 VTE18-4P8240 VS/VE18-4P3740 WTE280-2P1131 WTE11-2P2432 WTB8-P2231 CM30-25NNP-EC1 CM18-08BNP-EW1 CM18-12NNP-EC1 CM30-16BPP-EC1 CM30-16BPP-EW1 CM30-25NPP-EW1 E100-A2A22C05A GRL18-P1137 KUP-0606-B KUP-0610-D P250H VT12T-2P410 CQ28-10NPP-KW1 DFS60B-S1PA10000 GL6-P7111 GRL18-P1132 KT5W-2P1116 WSE11-2N2430 WTB11-2P2461 WSE4-3P2230 WL2SG-2F3235 IMB12-08NPPVC0S DBS36E-BBAK02048 DBS36E-BBEK00500 DBS36E-S3AK01024 DBS36E-S3AK02048 DBS36E-S3EK00600