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 m¹⁾ 0 m ... 1.7 m²⁾ Visible red light LED³⁾ 650 nm --Potentiometer, 270° Ø 70 mm (2 m)

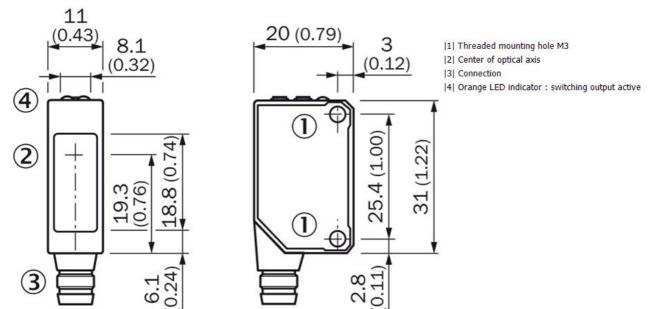
Mechanics/electronics

Mechanics/electronics	1)
Supply voltage:	10 V DC ₂ 30 V DC ¹⁾
Ripple:	$\pm 10\%^{2}$
Power consumption:	≤ 30 mA ³⁾
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 ⁵⁾
Attenuation along light beam:	≤ 20 %
Connection type:	Cable, 3-wire, 2 m ⁶⁾
Cable material:	PVC
Circuit protection:::	A, B, D ^{7) 8) 9)}
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) Limit values, operation in short-circuit protected network max 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 $^{(3)}$

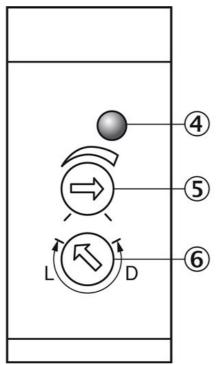
load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ Do not bend below 0 °C ⁷⁾ A = V_S connections reverse-polarity protected ⁸⁾ B = inputs and output reverse-polarity protected ⁹⁾ D =

outputs overcurrent and short-circuit protected

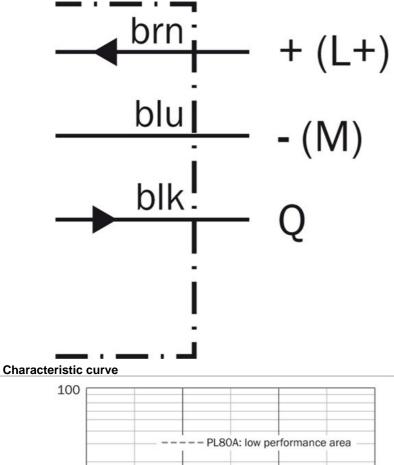
Dimensional drawing

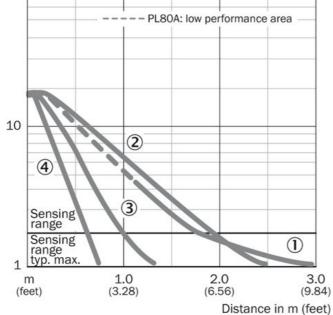


Adjustments possible

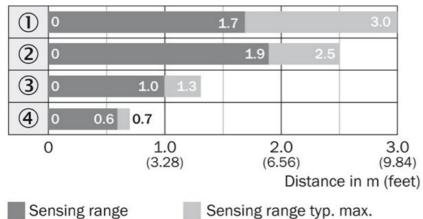


- 4 Orange LED indicator : switching output active
- |5| Sensitivity adjustment
- |6| Light/ dark rotary switch L =
 - light switching, D = dark switching





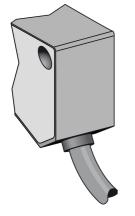
Sensing range diagram



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

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