



Fotoprzełączniki W8G, Fotoprzełącznik refleksyjny, autocollimation

WL8G-P2231



Nazwa modelu > **WL8G-P2231**

Numer części > **6033188**



At a glance

- Autocollimation
- Red PinPoint LED
- 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

Cechy

Wymiary (Szer. x Wys. x Głęb.):	11 mm x 31 mm x 20 mm
Maks. strefa działania:	0 m ... 3 m ¹⁾
Sensing range:	0 ... 1,7 m ²⁾
Housing desig (light emission):	Prostopadłościenna, Slim
Nadajnik światła:	LED ³⁾
Rodzaj światła:	widzialne światło czerwone
Długość fali:	650 nm
Nastawienie czułości:	Potentiometer, 270°
Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny, autocollimation
Light spot (distance):	Ø 70 mm (2 m)
Wyjście alarmowe:	-

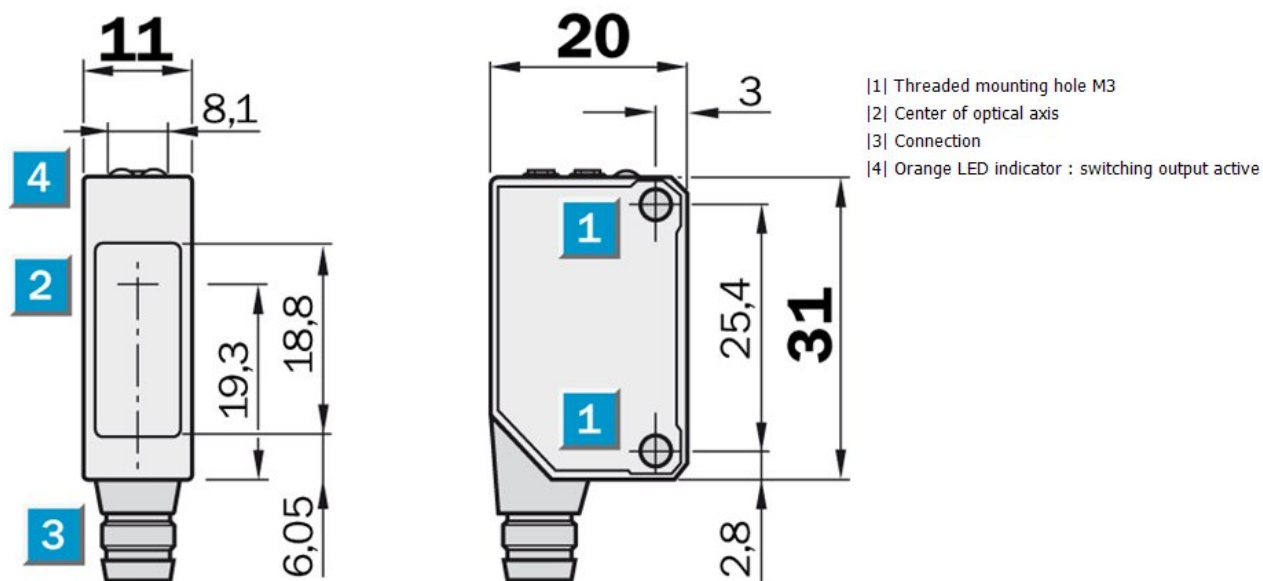
1) 2) PL80A 3) Average service life of 100,000 h at $T_A = +25\text{ °C}$

Mechanika/elektronika

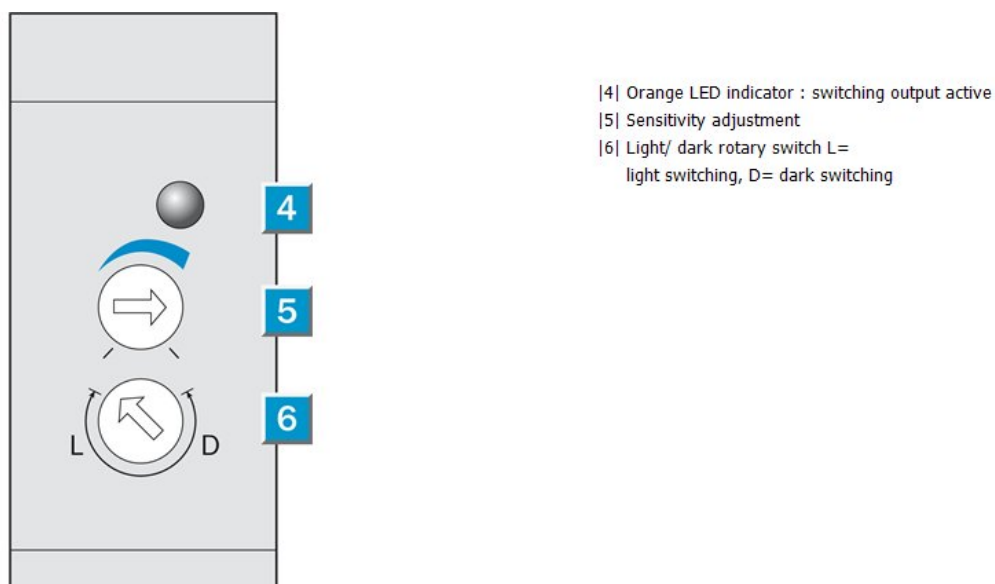
Rodzaj zabezpieczenia:	IP 67
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	$\pm 10\%$ ²⁾
Pobór prądu:	$\leq 30\text{ mA}$ ³⁾
Wyjście przełączające:	PNP, light/dark-switching, manually selectable, open collector
Output current I _{max} :	100
Czas reakcji:	$\leq 0,5\text{ ms}$ ⁴⁾
Switching frequency:	1.000 ⁵⁾
Sposób przyłączania:	Connector M8, 4-pin
Układ zabezpieczenia:::	A B 6) 7) 8) D
Ciężar:	10 g
Tworzywo, obudowa:	ABS
Tworzywo, układ optyczny:	PMMA
Ambient temperature, operation:	-25 °C ... 55 °C
Ambient temperature, storage:	-40 °C ... 70 °C
Filtr polaryzacyjny:	✓
Dostawa:	Stainless steel mounting bracket (1.4301/304) BEF-W100-A, Reflector P250
Ognisko nastawne:	-
Napięcie zasilania silnika:	-
Output state-LED:	-
Napięcie sygnału PNP HIGH/LOW:	approx. VS - 1.8 V / 0 V
Tłumienie w drodze optycznej światła:	$\leq 20\%$
Emitancja:	do obiektów transparentnych
Ogrzewanie przedniej szyby:	-
AS-Interface-Chip:	-
Anti-interference:	0

1) Limit values, operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of V_S 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⁾ D = outputs overcurrent and short-circuit protected

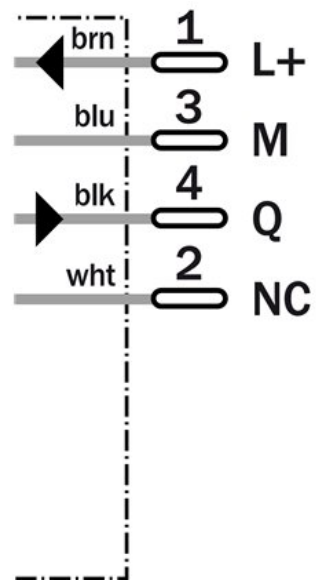
Dimensional drawing



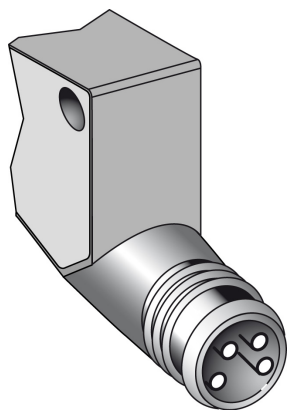
Einstell-Möglichkeiten



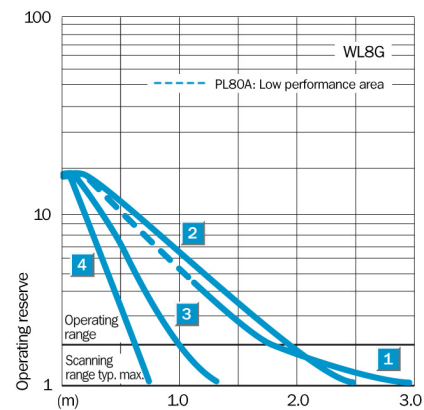
Connection diagram



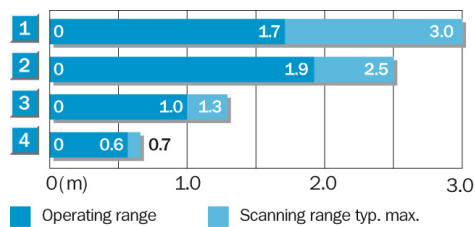
Connection type



Characteristic curve



Sensing range diagram



	Reflector type	Operating range
1	PL80A	0 ... 1.7m
2	P250F	0 ... 1.9 m
3	PL20F	0 ... 1.0 m
4	PL10F	0 ... 0.6 m

Australia

Phone +61 3 9497 4100
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 +852-2763 6966
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 +972-4-999-0590
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

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

Slovenija

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

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 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