

ONLINE DATA SHEET
www.mysick.com

Photoelectric sensors
G2S, Photoelectric retro-reflective sensor, Standard optics

GL2S-P5311



SICK
Sensor Intelligence.

SICK
Sensor Intelligence.

Photoelectric sensors
G2S, Photoelectric retro-reflective sensor, Standard optics

Model Name > GL2S-P5311
Part No. > 1064359





Illustration may differ

At a glance

- Operating distance up to 3 m
- Full-grade photoelectric retro-reflective sensor with polarizing filter to detect highly reflective objects
- PinPoint LED technology is precise and fast-reacting for optimal, quick detection of a wide range of objects
- Clearly visible LED display
- Rugged metal mounting bushes ensure reliable installation and a long service life

Your benefits

- Easy alignment thanks to the small, brilliant and highly visible light spot
- High throughput and less machine and system downtime, since the sensors are pre-set and have high operating reserves
- Space-saving system, since the powerful PinPoint LED with a high light intensity permits the use of small reflectors for high sensing ranges
- The 45-degree tilted cable entry offers maximum installation flexibility with additional soft rubber bearings to absorb vibrations and tensile loads
- Installation flexibility since several sensors can be installed in close proximity to one another without causing false trips due to interference

Features

Sensor/detection principle:	Photoelectric retro-reflective sensor, Standard optics
Dimensions (W x H x D):	7.7 mm x 21.8 mm x 13.5 mm
Housing design (light emission):	Rectangular
Sensing range max.:	0.02 m ... 3 m [1]
Sensing range:	0.03 m ... 2.5 m [2]
Type of light:	Visible red light
Light source:	PinPoint LED [3]
Wave length:	640 nm
Light spot size (distance):	Ø 11 mm (250 mm)

[1] [2] PL40A [3] Average service life of 100,000 h at T_A = +25 °C

Mechanics/electronics

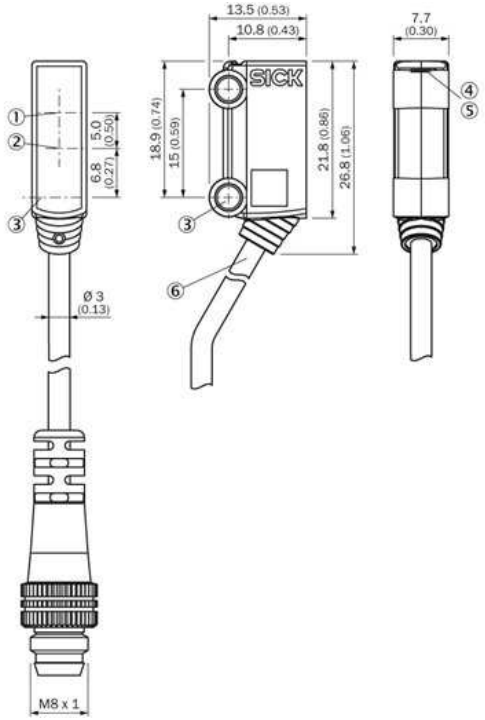
Supply voltage:	10 V DC ... 30 V DC [1]
Ripple:	≤ 5 Vpp [2]
Power consumption:	≤ 20 mA [3]
Output type:	PNP

© SICK AG. Subject to change without notice.

Switching mode:	Light switching
Output current Imax.:	< 50 mA
Response time:	< 0.6 ms [4)]
Switching frequency:	800 Hz [5)]
Connection type:	Cable with connector M8, 3-pin, 200 mm [6)]
Cable diameter:	Ø 3 mm
Circuit protection:::	A, C, D [7) 8) 9)]
Polarisation filter:	✓
Optics material:	PMMA
Enclosure rating:	IP 67
Ambient temperature operation:	-25 °C ... +50 °C
Ambient storage temperature:	-40 °C ... +75 °C
UL File No.:	NRKH.E181493
Housing material:	ABS, Plastic

[1)] Limit values, operation in short-circuit protected network max. 8 A [2)] May not exceed or fall short of V_S tolerances [3)] Without load [4)] Signal transit time with resistive load [5)] With light/dark ratio 1:1 [6)] Do not bend below 0 °C [7)] A = V_S connections reverse-polarity protected [8)] C = interference suppression [9)] D = outputs overcurrent and short-circuit protected

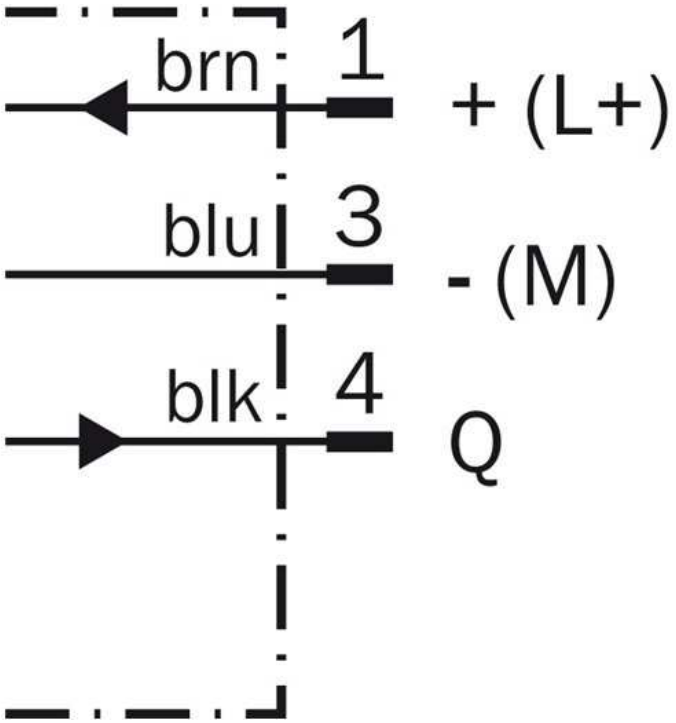
Dimensional drawing



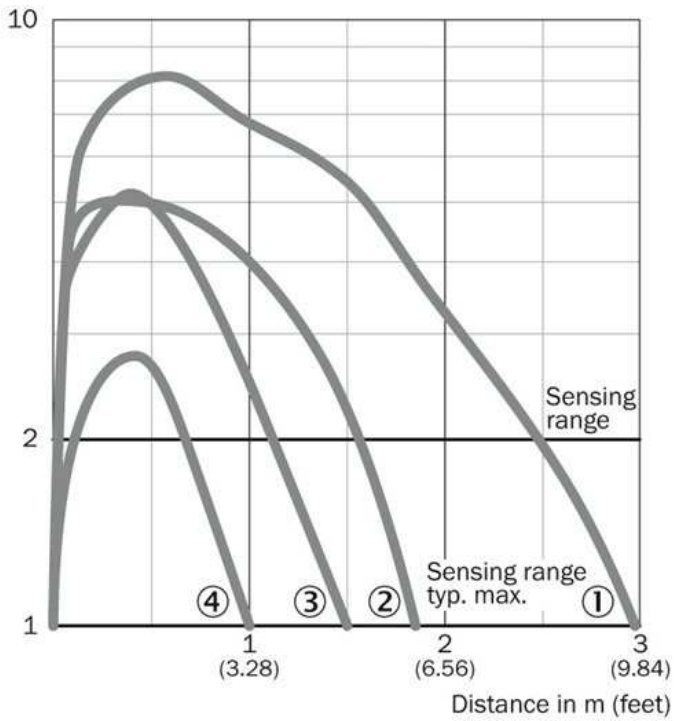
|1| Optical axis receiver
|2| Optical axis sender
|3| Mounting hole, Ø 3.2 mm
|4| Status indicator LED green: supply voltage on
|5| Status indicator LED,
yellow: Status of received light beam
|6| Connection

© SICK AG. Subject to change without notice.

Connection diagram



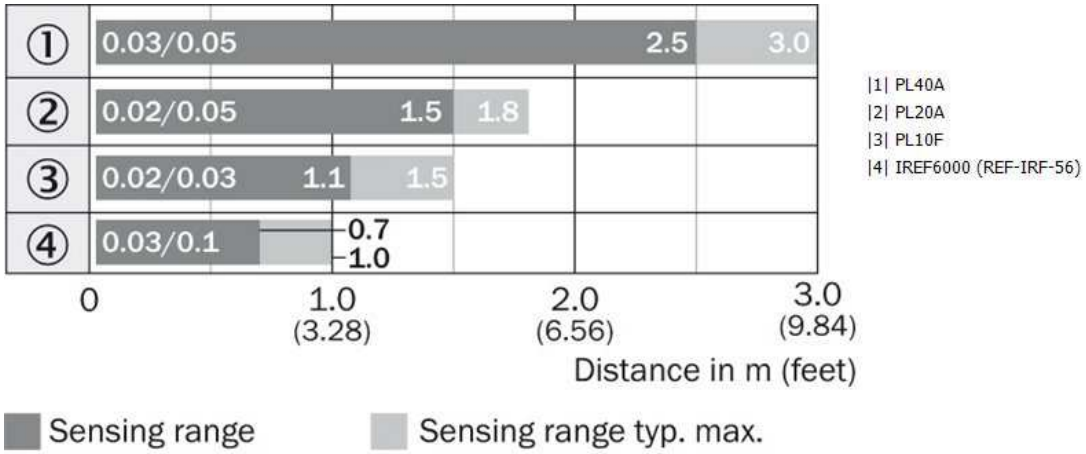
Characteristic curve



|1| PL40A
|2| PL20A
|3| PL10F
|4| IREF6000 (REF-IRF-56)

© SICK AG. Subject to change without notice.

Sensing range diagram

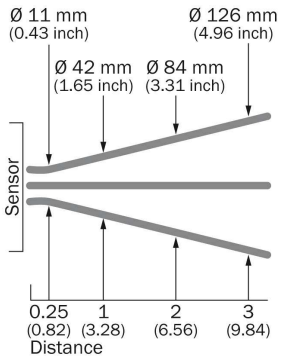


|1| PL40A
|2| PL20A
|3| PL10F
|4| IREF6000 (REF-IRF-56)

Connection type



Light spot size



All dimensions in m (feet)

© SICK AG. Subject to change without notice.

A4 4c int43

Australia
Phone +61 3 9457 0600
1800 33 48 02 – 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 marketing@sick.com.br

Canada
Phone +1 905 771 14 44
E-Mail information@sick.com

Česká 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 info@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 +972-4-6881000
E-Mail info@sick-sensors.com

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

Japan
Phone +81 (0)3 5309 2112
E-Mail support@sick.jp

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

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

Norge
Phone +47 67 81 50 00
E-Mail sick@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 sales.gsg@sick.com

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 88 65 878
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**

SICK
Sensor Intelligence.