



Illustration may differ



Ordering information

Type	part no.
PLG3-360F431	1029131

Other models and accessories → www.sick.com/PLG

Detailed technical data

Features

Sensor principle	Photoelectric retro-reflective sensor
Minimum detectable object (MDO)	35 mm ¹⁾
Beam separation	30 mm
Number of beams	13
Detection height	360 mm

¹⁾ See characteristic curve.

Mechanics/electronics

Wave length	650 nm
Supply voltage V_s	DC 15 V ... 30 V ¹⁾
Power consumption sender	< 45 mA
Ripple	< 5 V _{pp}
Output current I_{max}	≤ 100 mA
Output load, capacitive	100 nF
Output load, Inductive	1 H
Initialization time	0.6 s
Switching output	PNP ²⁾
Output mode	Q dark switching ³⁾
Current consumption job LED	10 mA ¹⁾
Dimensions (W x H x D)	19.2 mm x 429.8 mm x 36.6 mm

¹⁾ Typical value.

²⁾ Q.

³⁾ Q = active, if at least one beam is interrupted, /Q = active, if all of the beams are free.

Connection type	Cable with M12 male connector, 4-pin, 280 mm
Housing material	Aluminum
Display	LED
Enclosure rating	IP54
Circuit protection	U _V connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression
Protection class	III
Weight	450 g
Front screen	PMMA

¹⁾ Typical value.

²⁾ Q.

³⁾ Q = active, if at least one beam is interrupted, /Q = active, if all of the beams are free.

Performance

Maximum range	2 m
Minimum range	≥ 110 mm
Operating range	1.3 m
Response time	< 80 ms ¹⁾

¹⁾ With resistive load.

Ambient data

Shock resistance	10 g / DIN EN 60068-2-29 / 16 ms
Vibration resistance	5 g, 10 Hz ... 55 Hz (IEC 68-2-6)
EMC	EN 60947-5-2
Ambient operating temperature	-10 °C ... +55 °C
Ambient temperature, storage	-40 °C ... +70 °C

Certificates

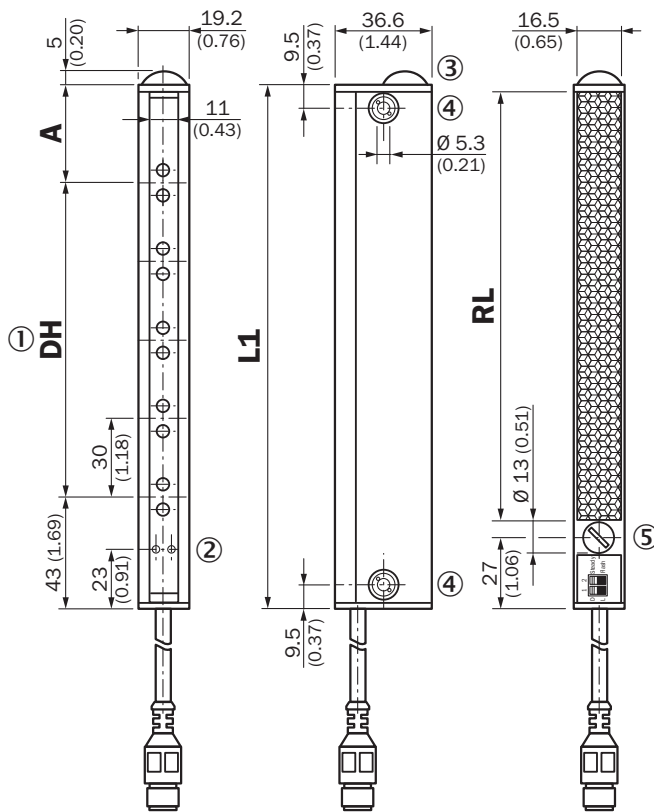
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
Photobiological safety (IEC EN 62471)	✓

Classifications

ECLASS 5.0	27270910
ECLASS 5.1.4	27270910
ECLASS 6.0	27270910
ECLASS 6.2	27270910
ECLASS 7.0	27270910
ECLASS 8.0	27270910
ECLASS 8.1	27270910
ECLASS 9.0	27270910

ECLASS 10.0	27270910
ECLASS 11.0	27270910
ECLASS 12.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC 16.0901	39121528

Dimensional drawing PLG3

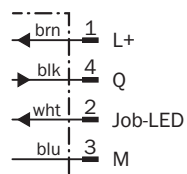
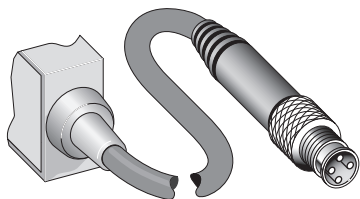


DH	A	L1	RL
120 (4.72)	36 (1.42)	199.8 (7.87)	162 (6.38)
210 (8.27)	26 (1.02)	279.8 (11.02)	242 (9.53)
270 (10.63)	36 (1.42)	349.8 (13.77)	312 (12.28)
360 (14.17)	26 (1.02)	429.8 (16.92)	392 (15.43)
420 (16.54)	36 (1.42)	499.8 (19.68)	462 (18.19)

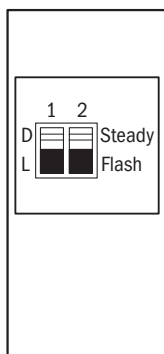
Dimensions in mm (inch)

- ① Detection height (DH)
- ② Indicator Power on: green; beam status: yellow
- ③ job LED, green
- ④ Mounting hole, Ø 5.3 mm
- ⑤ Configuration switches

Connection type and diagram



Adjustments PLG3



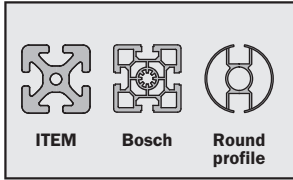
Configuration over switches

Switch 1		
D		Output active, in case of blocked beams
L		Output inactive, in case of blocked beams
Switch 2	Steady	Job-LED steady
	Flash	Job-LED flashes, 3 Hz

Specific features

Easy installation

1. Easy mounting on to different profiles



The light grid can be mounted on different profiles, e.g. ITEM, Bosch, round profile.

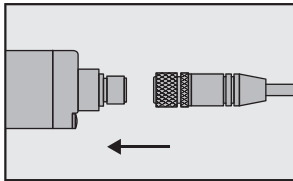
2. Easy installation with slot nuts



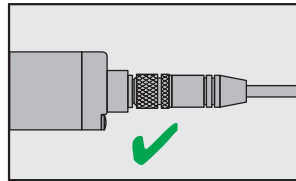
The PLG can easily be mounted on the profile with slot nuts.

Plug & play

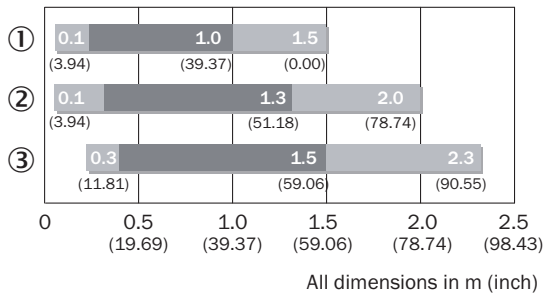
1. Plug in and tighten the ring of the connector



2. Device is ready for use



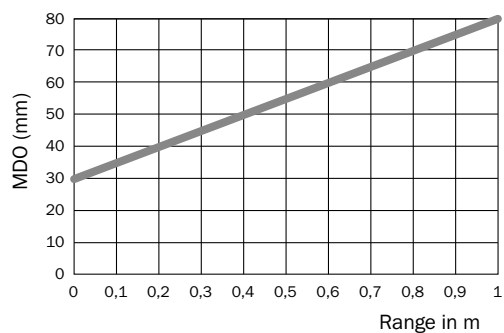
Characteristic curve: range



■ Working range ■ Min./max. range





- ① REF-PLG
- ② Reflector PL150
- ③ Reflector PL180

Detection capability PLG3



Recommended accessories

Other models and accessories → www.sick.com/PLG

	Brief description	Type	part no.
reflectors and optics			
	<ul style="list-style-type: none"> Description: Reflective tape on aluminium profile, 16.5 mm x 424.3 mm, 2 hole mounting Ambient operating temperature: -25 °C ... +65 °C 	REF-PLG360	1029199
	<ul style="list-style-type: none"> Description: Self-adhesive, customizable length by roll Dimensions: 2.5 cm 22.8 m Ambient operating temperature: -20 °C ... +60 °C 	REF-PLUS-R25-K	4051184
Mounting systems			
	<ul style="list-style-type: none"> Description: Sliding nuts with spring metal ball for ITEM profile, 2x slot 6 and slot 8, including mounting material Items supplied: Mounting hardware included with every 2 x slot 6 and slot 8 	BEF-NSIT-PLG	2041045
connectors and cables			
	<ul style="list-style-type: none"> Description: Sensor/actuator cable, unshielded Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Application: Untaminated zones, Zones with chemicals 	YF2A14-050VB3XLEAX	2096235

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Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

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