Online data sheet



PLG6-060F434

PLG

SWITCHING AUTOMATION LIGHT GRIDS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
PLG6-060F434	1051978

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

Detailed technical data

Features

Technology	Retro-reflective light grid
Minimum detectable object (MDO)	Parallel beam, 70 mm
Beam separation	60 mm
Number of beams	≥ 2
Detection height	60 mm

Performance

Minimum range	≥ 60 mm
Working range (reflective tape REF-PLG)	0.35 m
Response time	Parallel beam ≥ 5 ms [1]

[1] With resistive load.

Interfaces

Switching output	1 x PNP (Q)
Connection type	Short cable (0.28 m) with connector M12, 4-pin
Job LED input	PNP
Input current	30 mA

Mechanics/electronics

Wave length	660 nm
Supply voltage V_S	DC 15 V ... 30 V [1]
Power consumption sender	≥ 50 mA
Power consumption receiver	< 50 mA
Ripple	< 5 V_{pp}
Output current $I_{max.}$	50 mA
Initialization time	< 1 s

[1] Typical value.
[2] Q = active, if at least one beam is interrupted, /Q = active, if all of the beams are free.

Dimensions (W x H x D)	35.6 mm x 130 mm x 32 mm
Housing material	Aluminum
Indication	LED
Enclosure rating	IP 40
Circuit protection	U_V connections, reverse polarity protected, Output Q short-circuit protected, Interference pulse suppression
Weight	< 500 g
Front screen	PMMA
Output mode	Q dark switching [2]
Current consumption job LED	30 mA [1]

[1] Typical value.

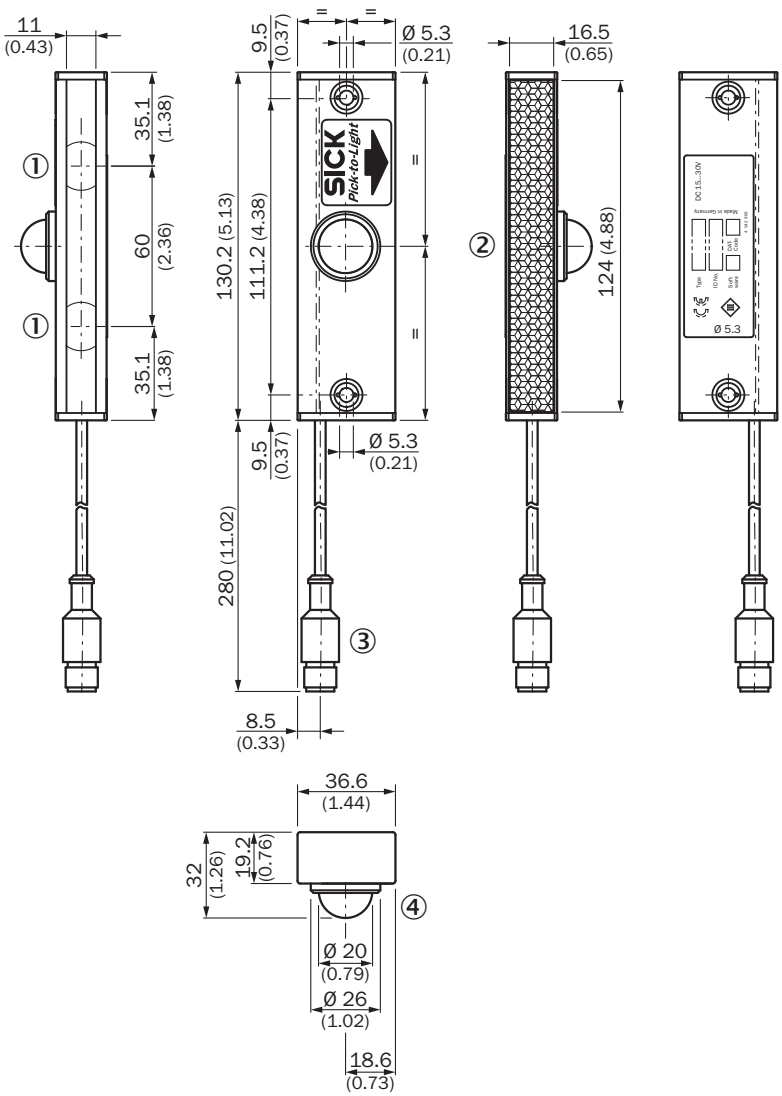
[2] Q = active, if at least one beam is interrupted, /Q = active, if all of the beams are free.

Ambient data

Protection class	III
EMC	EN 60947-5-2
Ambient temperature	Operation: –10 °C ... +55 °C Storage: –25 °C ... +70 °C
Vibration resistance	5 g, 10 Hz ... 55 Hz (IEC 68-2-6)
Shock load	10 g / DIN EN 60068-2-29 / 16 ms

Dimensional drawing (Dimensions in mm (inch))

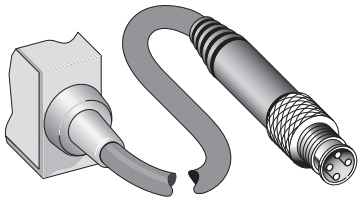
PLG6

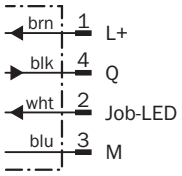


① Photoelectric retro-reflective sensor
② Reflective tape
③ M12, 4-pin male connector
④ Job-LED, red

Connection type and diagram

M12, 4-pin male connector

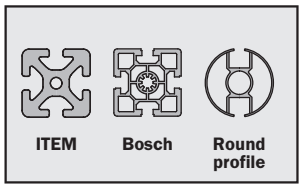




Concept of operation

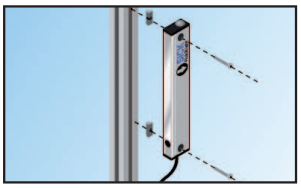
Easy installation

1. Easy mounting on to different profiles



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

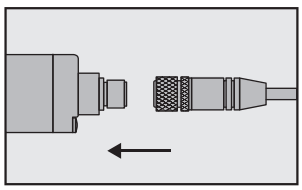
2. Easy installation with slot nuts



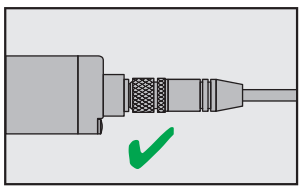
The PLG can easily be mounted on the profile with slot nuts.

Plug & play

1. Plug in and tighten the ring of the connector



2. Device is ready for use



Recommended accessories

Other models and accessories ➜ www.sick.de/PLG

	Brief description	Type	Part no.
Other mounting accessories			

	Brief description	Type	Part no.
	Sliding nuts with spring metal ball for ITEM profile, 2x slot 6 and slot 8, including mounting material, Mounting hardware included with every 2 x slot 6 and slot 8	BEF-NSIT-PLG	2041045
Plug connectors and cables			
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-G05M	6009866

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

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

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

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