chanhvinh.com

Product data sheet



GL6-CA011K00

FlexChain

SWITCHING AUTOMATION LIGHT GRIDS

SICK
Sensor Intelligence.

chanhvinh.com

GL6-CA011K00 | FlexChain

SWITCHING AUTOMATION LIGHT GRIDS



Illustration may differ

Ordering information

Type	Part no.
GL6-CA011K00	1091602

Only in conjunction with FlexChain host

1091608 | FC1A-AZ2A1A: Standard I/O

1091609 | FC1A-BZ2A1A: Advanced I/O

1091610 | FC1A-CZ2A1A: RS-485

1091611 | FC1A-DZ2A1A: CANopen

Other models and accessories ➜ www.sick.com/FlexChain

Detailed technical data

Features

Device version	FlexChain Guest
Sensor principle	Photoelectric retro-reflective sensor Light grid system

Mechanics/electronics

Light source	PinPoint LED, visible red light
Light spot size (distance)	Ø 8 mm (350 mm)
Wave length	650 nm
Supply voltage V_S	12 V, via FlexChain (host)
Adjustment	Cable (Sensitivity) Via FlexChain (host)
Dimensions (W x H x D)	12 mm x 31.5 mm x 21 mm
Connection type	Male connector M8, 4-pin, Cable with female connector, M8, 4-pin, 0.5 m
Housing material	Plastic (ABS)
Enclosure rating	IP65, IP67
Protection class	III
Weight	Approx. 23 g

Performance

Operating range	6 m

Ambient data

Shock resistance	Single shocks 30 g, 11 ms 6 per axle, continuous shocks 25 g, 6 ms, 1,000 per axis
Vibration resistance	Sinusoidal oscillation 20-2,000 Hz 10 g, 3 h per axle
EMC	EN 61000-6-2, EN 61000-6-3

[1] Sunlight.

chanhvinh.com

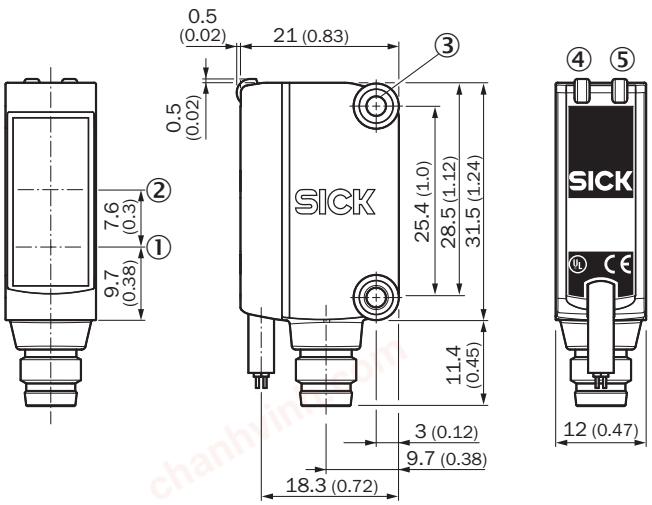
Ambient light immunity	Direct: 22,000 lx [1]
Ambient operating temperature	–25 °C ... +55 °C
Ambient temperature, storage	–25 °C ... +70 °C

[1] Sunlight.

Classifications

ECLASS 5.0	27270902
ECLASS 5.1.4	27270902
ECLASS 6.0	27270902
ECLASS 6.2	27270902
ECLASS 7.0	27270902
ECLASS 8.0	27270902
ECLASS 8.1	27270902
ECLASS 9.0	27270902
ECLASS 10.0	27270902
ECLASS 11.0	27270902
ECLASS 12.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
ETIM 7.0	EC002717
ETIM 8.0	EC002717
UNSPSC 16.0901	39121528

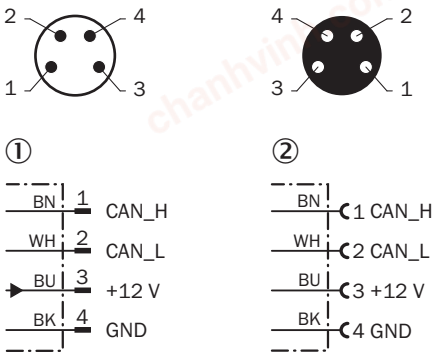
Dimensional drawing (Dimensions in mm (inch))



① Center of optical axis, sender
② Center of optical axis, receiver
③ Threaded mounting hole M3
④ LED indicator green
⑤ LED indicator yellow

chanhvinh.com

Connection type and diagram

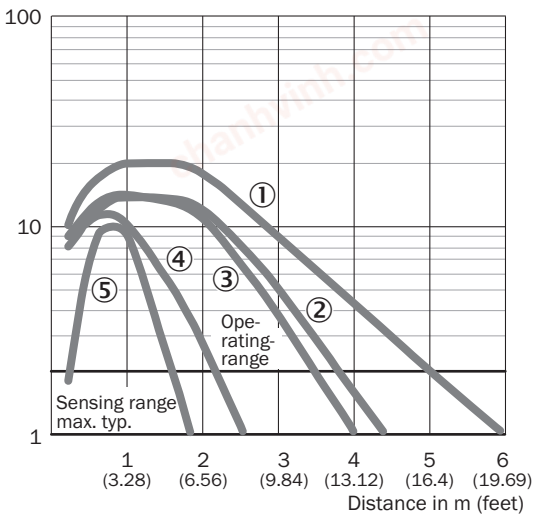


① Male connector M8, 4-pin
② Cable with female connector, M8, 4-pin

Operating reserve

GL6

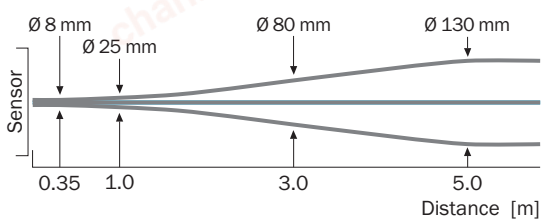
Operating reserve



① Reflector PL80A
② Reflector PL40A
③ Reflector P250
④ Reflector PL20A
⑤ Reflective tape REF-IRF-56

Light spot size

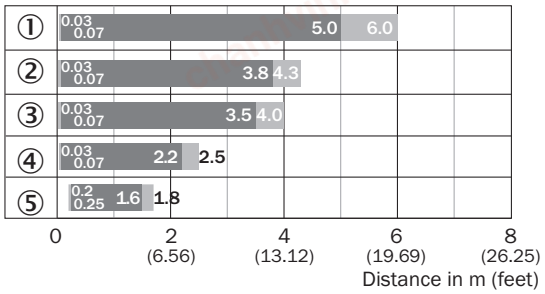
GL6, GL6G



chanhvinh.com

Sensing range diagram

GL6, GL6G



Sensing range Sensing range max.

① Reflector PL80A
② Reflector PL40A
③ Reflector P250
④ Reflector PL20A
⑤ Reflective tape REF-IRF-56

Recommended accessories

Other models and accessories ➜ www.sick.com/FlexChain

	Brief description	Type	Part no.
Mounting brackets and plates			
	Stainless steel (1.4301)	BEF-WN-G6	2062909
Reflectors			
	Rectangular, screw connection, 51 mm x 61 mm, PMMA/ABS, Screw-on, 2 hole mounting	P250	5304812

chanhvinh.com

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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:

Contacts and other locations –www.sick.com