



GTB6-CB011K00

FlexChain

AUTOMATION LIGHT GRIDS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	part no.
GTB6-CB011K00	1092299

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

Detailed technical data

Features

Device version	FlexChain Guest
Sensor principle	Photoelectric proximity sensor Light grid system

Mechanics/electronics

Light source	PinPoint LED, visible red light
Light spot size (distance)	Ø 6 mm (100 mm)
Wave length	650 nm
Supply voltage V_s	12 V, via FlexChain (host)
Adjustment	Potentiometer (Sensitivity)
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, 1.5 m
Housing material	Plastic (ABS)
Enclosure rating	IP65, IP67
Protection class	III
Weight	Approx. 23 g

Performance

Operating range	0.25 m
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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
Ambient light immunity	Direct: 9,000 lx ¹⁾

¹⁾ Sunlight.

Ambient operating temperature	-25 °C ... +55 °C
Ambient temperature, storage	-25 °C ... +70 °C

¹⁾ Sunlight.

Certificates

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

Classifications

ECLASS 5.0	27270903
ECLASS 5.1.4	27270903
ECLASS 6.0	27270903
ECLASS 6.2	27270903
ECLASS 7.0	27270903
ECLASS 8.0	27270903
ECLASS 8.1	27270903
ECLASS 9.0	27270903
ECLASS 10.0	27270903
ECLASS 11.0	27270903
ECLASS 12.0	27270903
ETIM 5.0	EC001821
ETIM 6.0	EC001821
ETIM 7.0	EC001821
ETIM 8.0	EC001821
UNSPSC 16.0901	39121528

Technical drawing of the SICK S3000 sensor showing three views: front, side, and top. The front view shows a rectangular sensor head with a mounting bracket. The side view shows the sensor's profile with dimensions for mounting holes and overall size. The top view shows the sensor's base with mounting holes and dimensions. Dimensions are given in mm and inches.

Dimensions (mm / inches):

- Front view:
 - 9.7 (0.38)
 - 7.6 (0.3)
 - 2.8 (0.11)
- Side view:
 - 0.5 (0.02)
 - 21 (0.83)
 - 25.4 (1.0)
 - 28.5 (1.12)
 - 31.5 (1.24)
 - 11.4 (0.45)
 - 18.3 (0.72)
 - 3 (0.12)
 - 9.7 (0.38)
- Top view:
 - 12 (0.47)

- 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

①

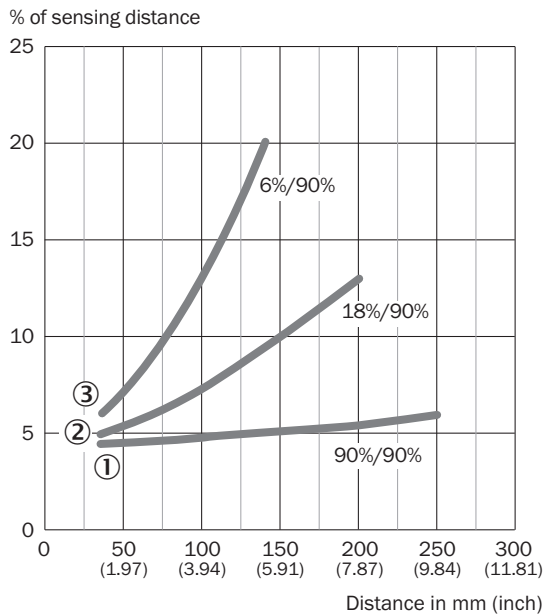
Pin	Signal
1	CAN_H
2	CAN_L
3	+12 V
4	GND

②

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1	CAN_H
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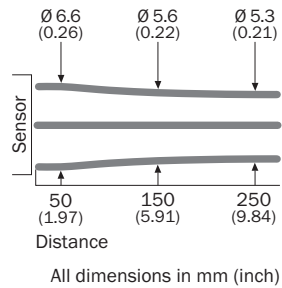
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Sensing distance GTB6

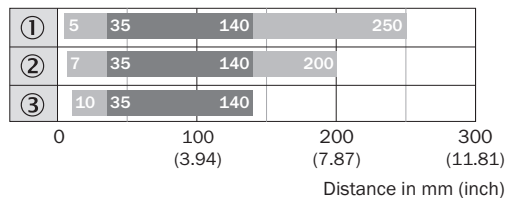


- ① object with 90% remission (based on standard white, DIN 5033)
- ② Sensing range on gray, 18% remission factor
- ③ Sensing range on black, 6% remission factor

Light spot size GTB6



Sensing range diagram GTB6

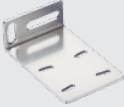


- Sensing range max.
- Sensing range

- ① object with 90% remission (based on standard white, DIN 5033)
- ② Sensing range on gray, 18% remission factor
- ③ Sensing range on black, 6% remission factor

Recommended accessories

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

	Brief description	Type	part no.
Mounting systems			
	• Material: Stainless steel • Details: Stainless steel (1.4301) • Suitable for: W4S, W4S	BEF-WN-G6	2062909

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