

GTB10-P0421S07

SMALL PHOTOELECTRIC SENSORS

SICKSensor Intelligence.

Ordering information

Туре	Part no.
GTB10-P0421S07	1083158

Other models and accessories → www.sick.com/G10

Illustration may differ



Detailed technical data

Features

Functional principle	Photoelectric proximity sensor
Functional principle detail	Background suppression
Dimensions (W x H x D)	20 mm x 50 mm x 39 mm
Housing design (light emission)	Rectangular
Sensing range	≤ 400 mm ¹⁾
Type of light	Infrared light
Light source	LED ²⁾
Light spot size (distance)	Ø 22 mm (700 mm)
Wave length	850 nm
Adjustment	Fix

 $^{^{1)}}$ Fixed sensing range.

Mechanics/electronics

Supply voltage U _B	10 V DC 30 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾
Current consumption	20 mA

 $^{^{1)}}$ Limit values when operated in short-circuit protected network: max. 8 A.

²⁾ Average service life: 100,000 h at T_U = +25 °C.

 $^{^{2)}}$ May not fall below or exceed U_{V} tolerances.

 $^{^{}m 3)}$ Signal transit time with resistive load.

⁴⁾ With light/dark ratio 1:1.

 $^{^{5)}}$ Do not bend below 0 °C.

 $^{^{6)}}$ A = $\rm V_{S}$ connections reverse-polarity protected.

⁷⁾ B = inputs and output reverse-polarity protected.

 $^{^{8)}}$ C = interference suppression.

 $^{^{9)}}$ D = outputs overcurrent and short-circuit protected.

Switching output	PNP
Switching mode	Light switching
Output current I _{max.}	≤ 100 mA
Response time	≤ 500 µs ³⁾
Switching frequency	1,000 Hz ⁴⁾
Connection type	Cable with connector, JST EHR-6, 6-pin, 350 mm ⁵⁾
Cable material	Plastic, PVC
Circuit protection	A ⁶⁾ B ⁷⁾ C ⁸⁾ D ⁹⁾
Protection class	III
Weight	70 g
Housing material	Plastic, ABS/PMMA
Enclosure rating	IP67
Electromagnetic compatibility (EMC)	EN 60947-5-2
Ambient operating temperature	-30 °C +60 °C
Ambient temperature, storage	-40 °C +70 °C

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Classifications

ECLASS 5.0	27270904
ECLASS 5.1.4	27270904
ECLASS 6.0	27270904
ECLASS 6.2	27270904
ECLASS 7.0	27270904
ECLASS 8.0	27270904
ECLASS 8.1	27270904
ECLASS 9.0	27270904
ECLASS 10.0	27270904
ECLASS 11.0	27270904
ECLASS 12.0	27270903
ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719
ETIM 8.0	EC002719

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 $^{^{6)}}$ A = V_S connections reverse-polarity protected.

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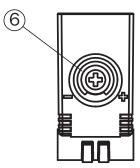
⁸⁾ C = interference suppression.

⁹⁾ D = outputs overcurrent and short-circuit protected.

UNSPSC 16.0901

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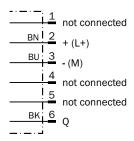
Adjustments



6 Potentiometer (sealed)

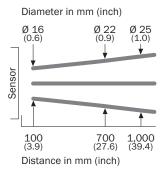
Connection diagram

Cd-361

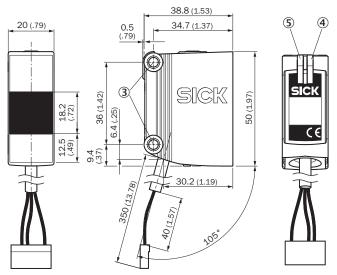


Light spot size

Light spot size



Dimensional drawing (Dimensions in mm (inch))



- 3 Mounting hole M4 (Ø 4.1 mm)
- 4 LED indicator yellow: Status of received light beam
- ⑤ LED indicator green: power on

Recommended accessories

Other models and accessories → www.sick.com/G10

	Brief description	Туре	Part no.
Universal bar clamp systems			
	Q-Lock, bar clamp system for G10 and reflector P250, Die-cast zinc, steel, zinc coated	BEF-KHSQ12R01	2071260

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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."

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