



Fotoprzełączniki G10, Fotoprzełącznik odbiciowy, Tłumienie tła

GTB10-N1411S02



Nazwa modelu > **GTB10-N1411S02**

Numer części > **1066853**



Produkt może różnić się od ilustracji

At a glance

- Long sensing ranges: up to 1,200 mm with background suppression
- PinPoint LED with bright and precise light spot or infrared LED
- Immunity to ambient light
- 10 V DC ... 30 V DC or 24 V AC/DC ... 240 V AC/DC power supply with PNP/NPN or relay output
- Small housing design
- Rugged sensor housing with metal-reinforced holes for assembly
- Q-Lock assembly system for mounting and aligning the sensor within a few seconds

Your benefits

- Long sensing ranges for maximum operating reserves
- Powerful background suppression ensures precise detection, regardless of reflective surfaces and objects
- Efficient installation: the GTB10 and the Q-Lock assembly system save valuable hours when mounting and commissioning multiple sensors
- Universal DC or AC/DC power supply for even greater application flexibility
- Highly reliable and durable despite optical interference and mechanical loads
- Wide range of accessories simplifies sensor integration: aids for assembly and connectors



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Wymiary (Szer. x Wys. x Głęb.):	20 mm x 50 mm x 39 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	20 mm ... 950 mm ¹⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	Pin Point LED ²⁾
Długość fali:	625 nm
Funkcje specjalne:	High functional reliability on foil-wrapped objects
Nastawa:	Potentiometer, 5 turns
Średnica plamki świetlnej (odległość):	Ø 8 mm (700 mm)

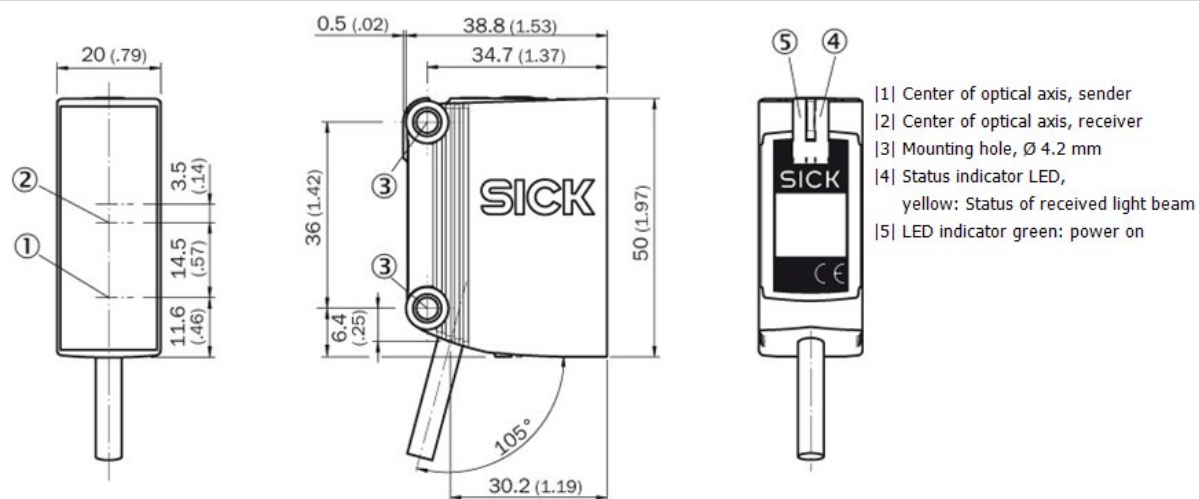
¹⁾ Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ²⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanika/elektronika

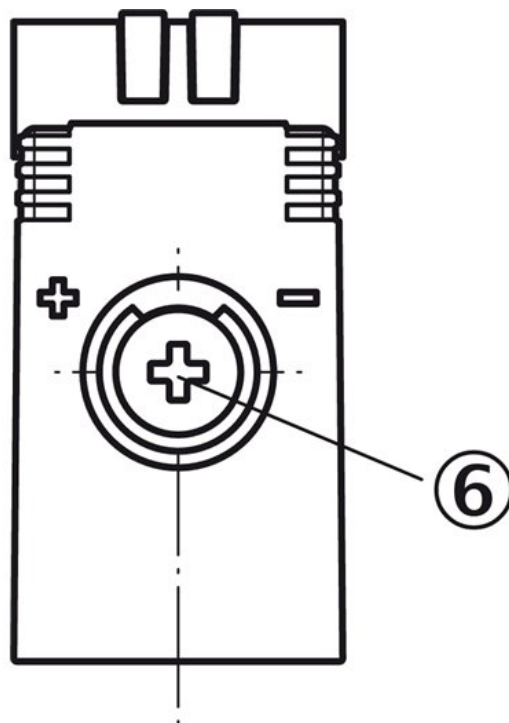
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	$\pm 5 \text{ Vss}$ ²⁾
Pobór prądu:	$\leq 20 \text{ mA}$
Wyjście przełączające:	NPN, open collector
Tryb przełączania:	Przełączanie na jasnym
Output current I _{max} :	$\leq 100 \text{ mA}$
Czas reakcji:	$\leq 1 \text{ ms}$ ³⁾
Sposób przyłączenia:	Cable, 3-wire, 2 m ⁴⁾
Cable material:	PVC
Conductor cross-section:	0,14 mm ²
Układ zabezpieczenia:::	A, B, C, D ⁵⁾ ⁶⁾ ⁷⁾ ⁸⁾
Klasa ochronności:	III
Ciężar:	90 g
Filtr polaryzacyjny:	-
Rodzaj zabezpieczenia:	IP 67
Kompatybilność elektromagnetyczna::	EN 60947-5-2
Ambient operating temperature:	-30 °C ... +60 °C
Ambient storage temperature:	-40 °C ... +70 °C
UL File No.:	NRKH.E348498 & NRKH7.E348498
Further standards:	UL325 ⁹⁾
Switching frequency max.:	500 Hz ¹⁰⁾
Housing material:	PVC/PMMA, Tworzywo sztuczne

¹⁾ Limit values; operation in short-circuit protected network max. 8 A ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Signal transit time with resistive load ⁴⁾ Do not bend below 0 °C ⁵⁾ A = V_S connections reverse-polarity protected ⁶⁾ B = inputs and output reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected ⁹⁾ Complies with the UL325 standard when used with sturdy protection hood (e.g. BEF-G10WSG, 2071960). ¹⁰⁾ With light/dark ratio 1:1

Rysunek techniczny

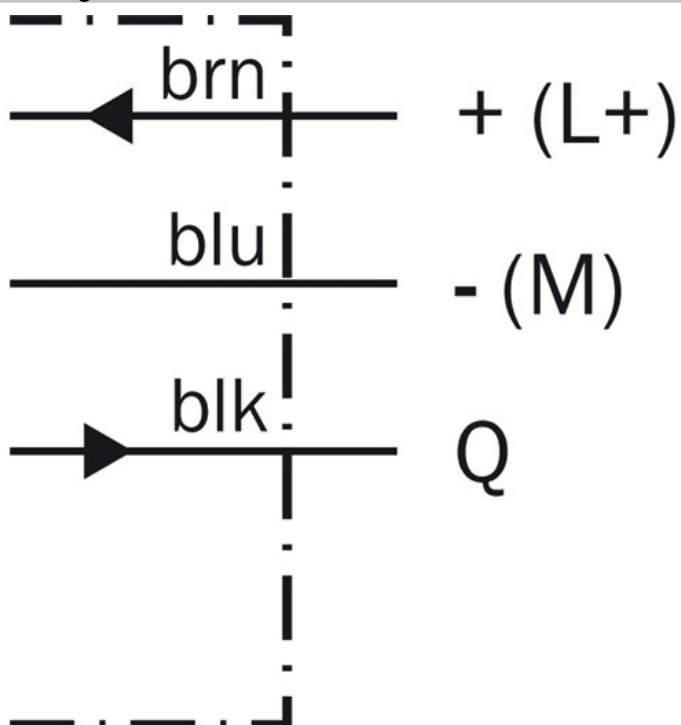


Adjustments possible

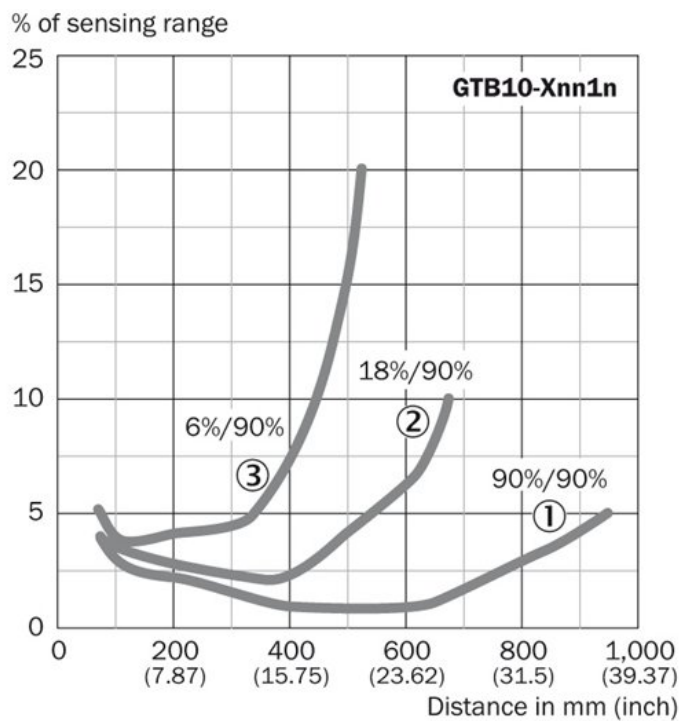


|6| Sensing range adjustment

Connection diagram

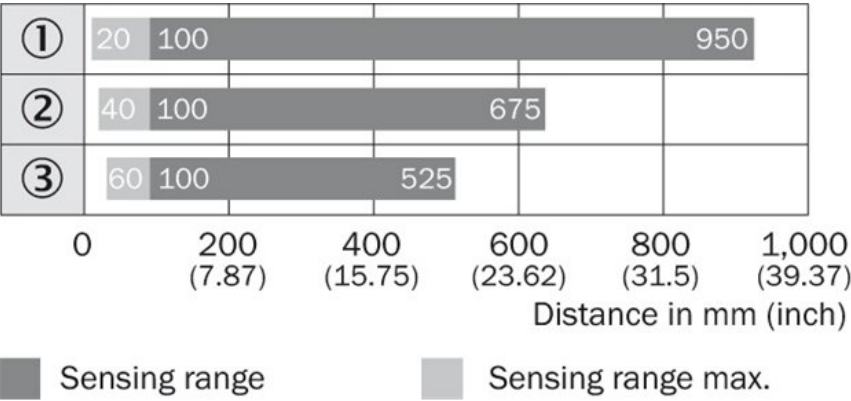


Characteristic curve



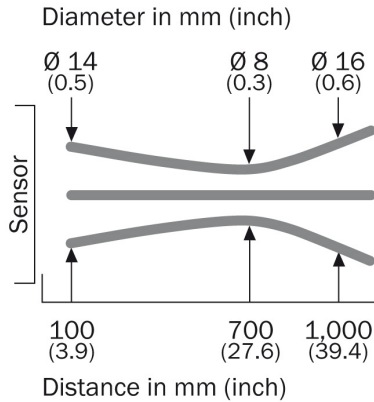
- [1] Sensing range on white, 90 % remission
- [2] Sensing range on gray, 18 % remission
- [3] Sensing range on black, 6 % remission

Sensing range diagram



- |1| Sensing range on white, 90 % remission
- |2| Sensing range on gray, 18 % remission
- |3| Sensing range on black, 6 % remission

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