



Fotoprzełączniki G10, Fotoprzełącznik odbiciowy, Tłumienie tła

GTB10-R3811



Nazwa modelu > **GTB10-R3811**

Numer części > **1064686**



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 51,5 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
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

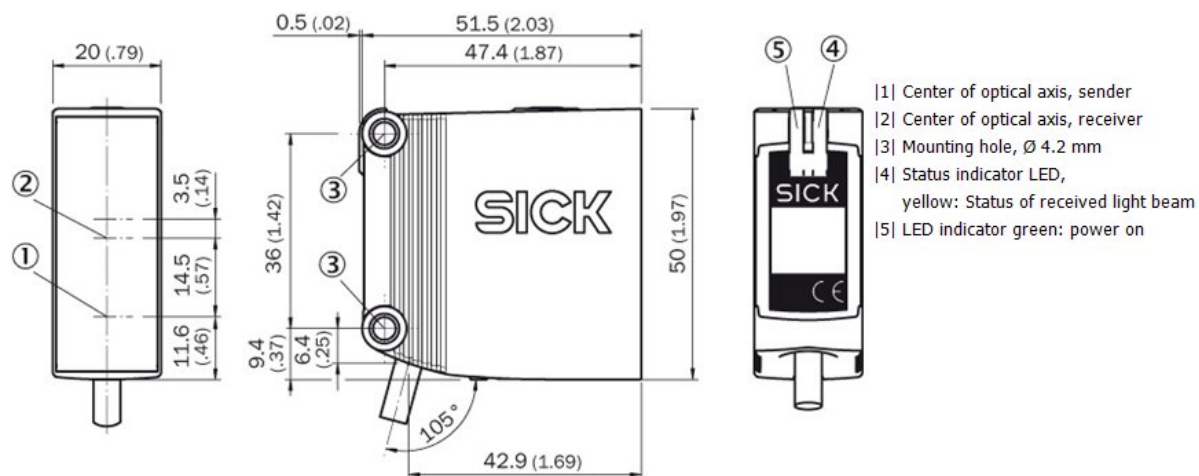
Mechanika/elektronika

Napięcie zasilania:	24 V AC/DC ... 240 V AC/DC ¹⁾
Tętnienia resztkowe:	± 5 Vss ²⁾

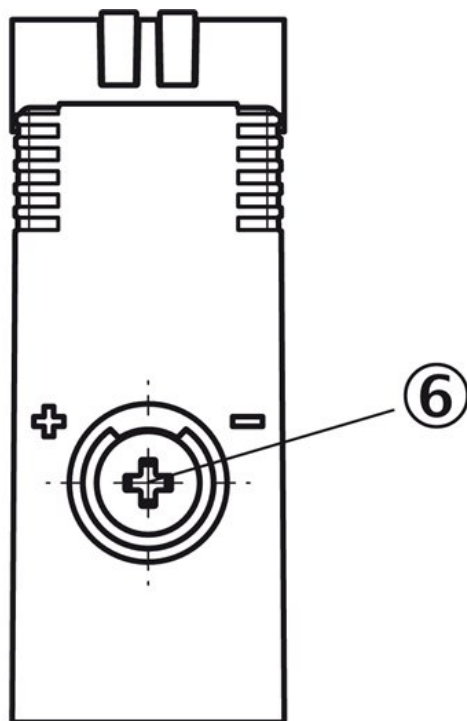
Pobór mocy:	≤ 2,5 VA
Wyjście przełączające:	Relay, SPDT, electrically isolated ³⁾
Czas reakcji:	≤ 10 ms
Sposób przyłączenia:	Cable, 5-wire, 2 m ⁴⁾
Cable material:	PVC
Conductor cross-section:	0,25 mm ²
Układ zabezpieczenia:	C ⁵⁾
Klasa ochronności:	II ⁶⁾
Ciężar:	115 g
Filtr polaryzacyjny:	-
Interference emission:	EN 61000-6-3 (2011-09) ⁷⁾
Rodzaj zabezpieczenia:	IP 67
Usage category:	AC-15, DC-13, According to EN 60947-1
Kompatybilność elektromagnetyczna:	EN 60947-5-2
Ambient operating temperature:	-30 °C ... +60 °C ⁸⁾
Ambient storage temperature:	-40 °C ... +70 °C
UL File No.:	NRKH.E348498 & NRKH7.E348498
Further standards:	UL325 ⁹⁾
Switching frequency max.:	20 Hz ¹⁰⁾
Switching load max. (current/voltage):	0,11 A (250 V DC), 3 A (250 V AC), 3 A (30 V DC)
Relay switching cycles min.:	100.000 cycles (3 A)
Housing material:	PVC/PMMA, Tworzywo sztuczne

¹⁾ +/- 10 % ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Provide suitable spark suppression for inductive or capacitive loads ⁴⁾ Do not bend below 0 °C ⁵⁾ C = interference suppression ⁶⁾ Reference voltage: 250 V AC ⁷⁾ In the case of a DC supply (ref. to EN 61000-6-3) the length of cable between the supply source and the sensor must be < 30 m ⁸⁾ UL: 0 °C ... +60 °C 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

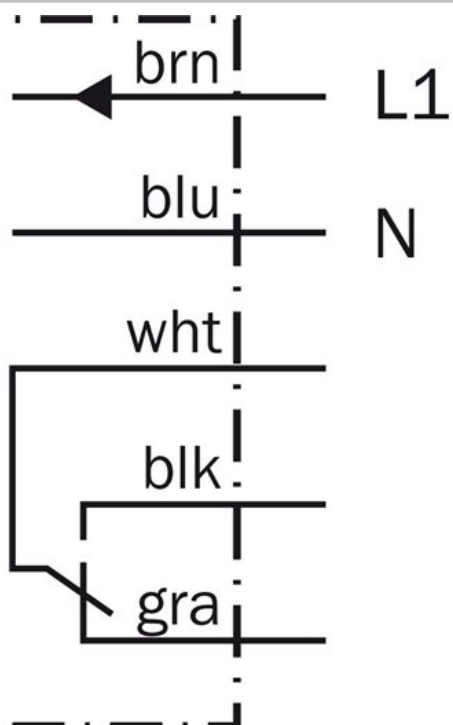


Adjustments possible

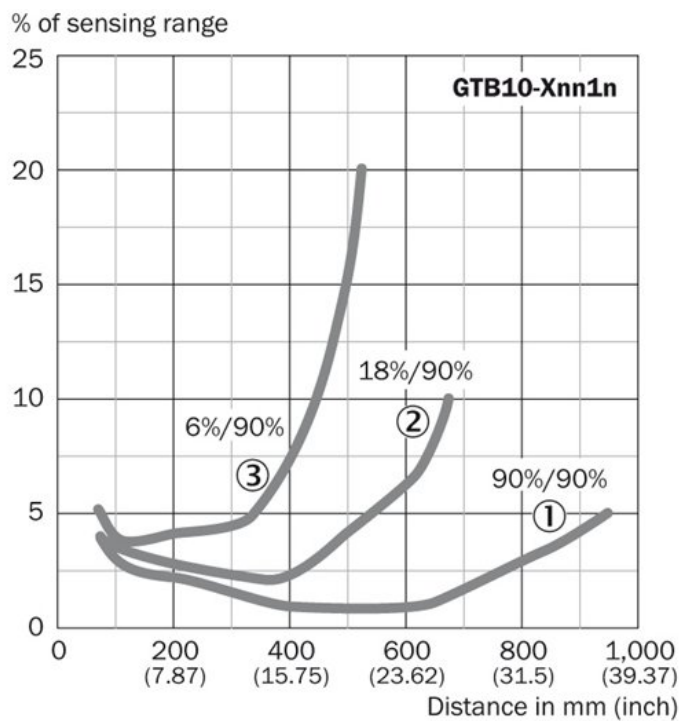


|6| Sensing range adjustment

Connection diagram

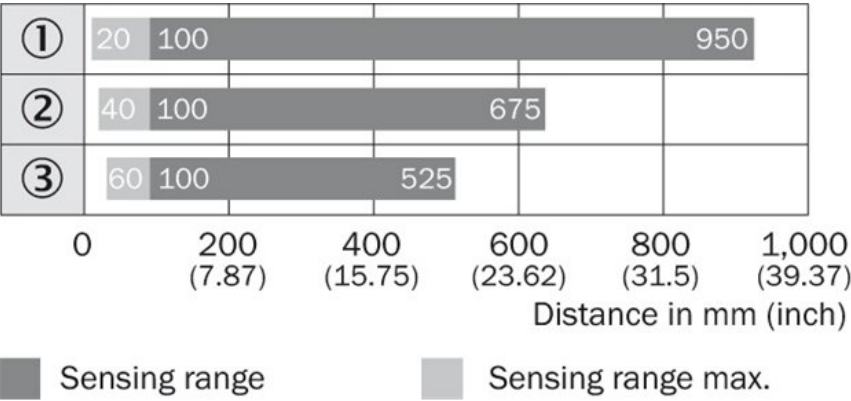


Characteristic curve



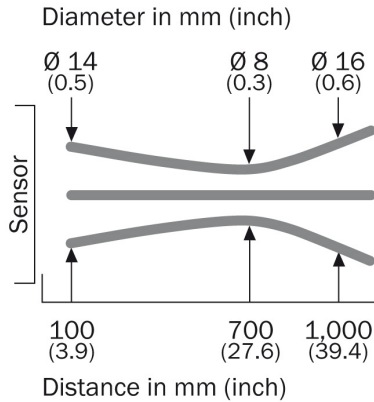
- [1] Sensing range on white, 90 % remission
- [2] Sensing range on gray, 18 % remission
- [3] Sensing range on black, 6 % remission

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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