



Fotoprzełączniki G10, Fotoprzełącznik odbiciowy, energetyczny

GTE10-R3821



Nazwa modelu > **GTE10-R3821**

Numer części > **1065874**



Produkt może różnić się od ilustracji

At a glance

- Long sensing ranges: up to 2,000 mm
- PinPoint LED with bright and precise light spot
- 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
- Efficient installation: the GTE10 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 or mechanical loads
- Wide range of accessories simplifies sensor integration: aids for assembly and connectors



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, energetyczny
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 ... 2.000 mm ¹⁾
Strefa działania:	40 mm ... 1.400 mm ²⁾
Rodzaj światła:	Światło podczerwone
Nadajnik światła:	LED ³⁾
Długość fali:	850 nm
Nastawa:	Potentiometer, 270 °
Średnica plamki świetlnej (odległość):	Ø 57 mm (1.500 mm)

^{1) 2)} Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ³⁾ Average service life of 100,000 h at T_A = +25 °C

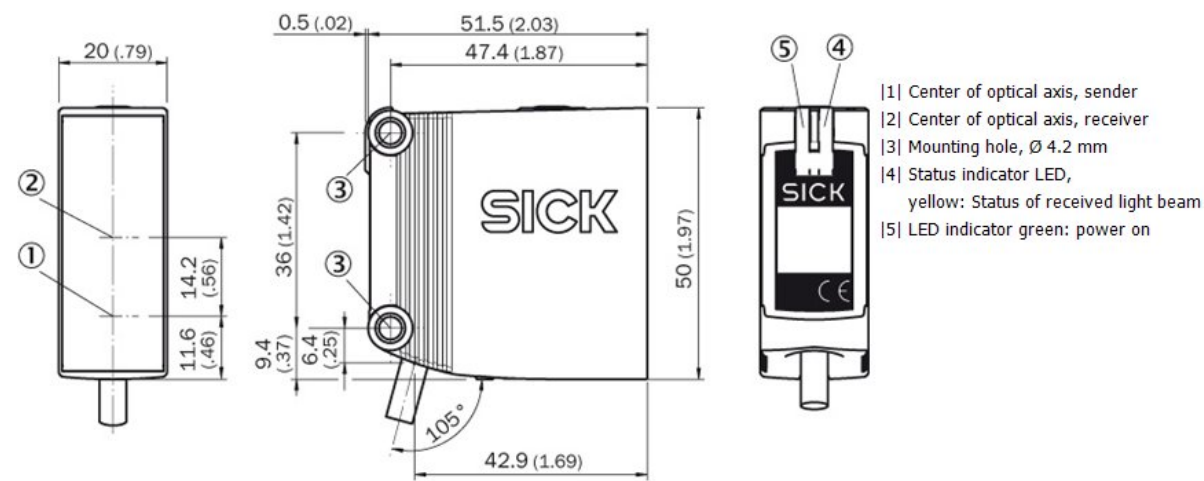
Mechanika/elektronika

Napięcie zasilania:	24 V AC/DC ... 240 V AC/DC ¹⁾
Tętnienia resztkowe:	± 5 Vss ²⁾
Pobór mocy:	≤ 2,5 VA

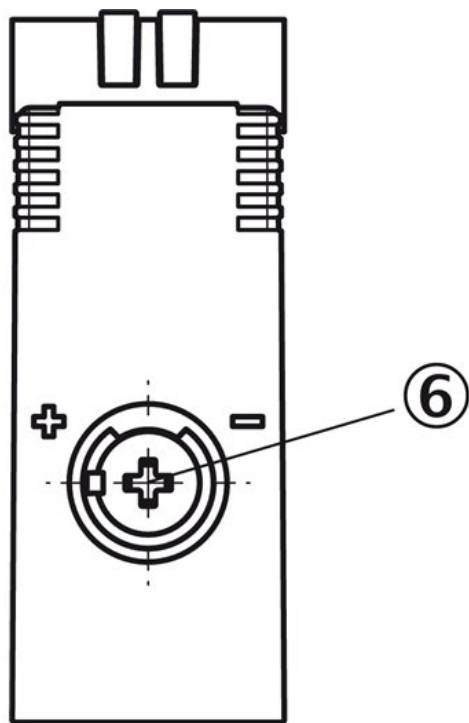
Wyjście przełączające:	Relay, SPDT, electrically isolated ³⁾
Czas reakcji:	≤ 10 ms
Typ połączenia:	Cable, 5-wire, 2 m ⁴⁾
Cable material:	PVC
Conductor cross-section:	0,25 mm ²
Układ zabezpieczenia:	C ⁵⁾
Klasa ochronności:	II ⁶⁾
Ciężar:	115 g
Filtr polaryzacyjny:	-
Interference emission:	EN 61000-6-3 (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

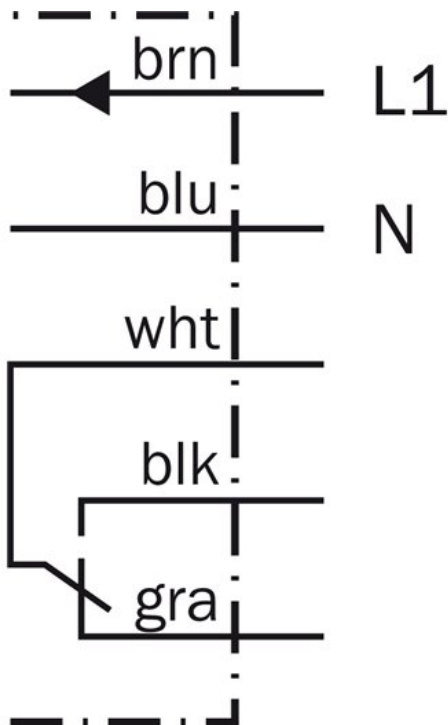


Adjustments possible

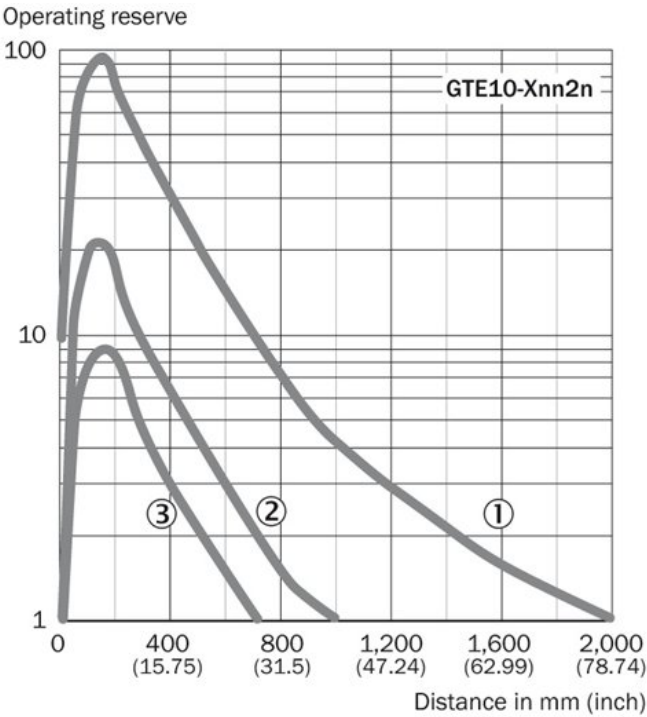


|6] Sensing range adjustment

Connection diagram

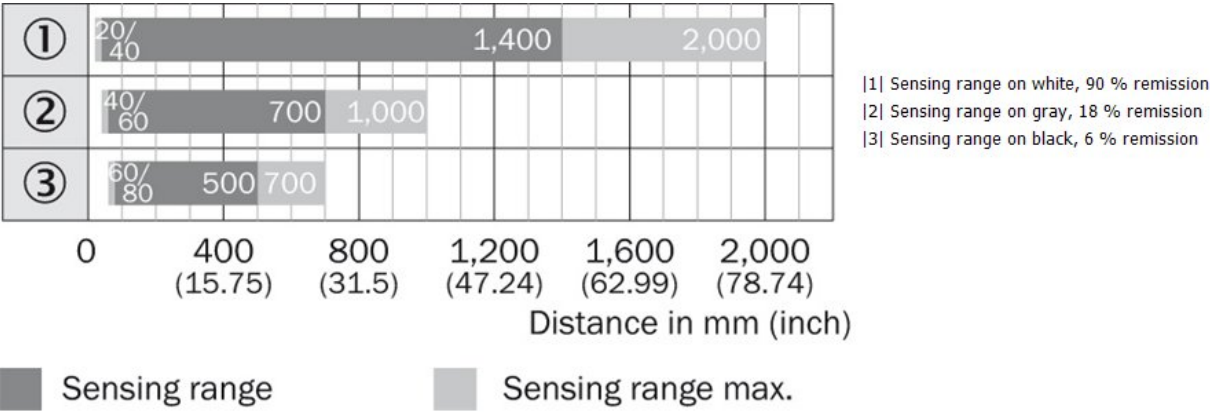


Operating reserve

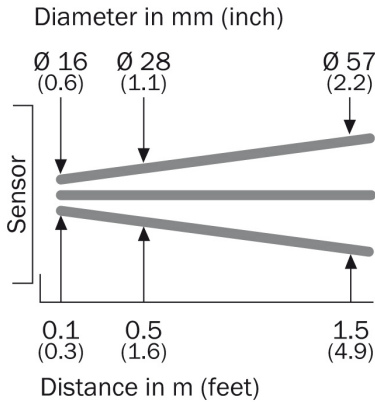


- [1] Sensing range on white, 90 % remission
- [2] Sensing range on gray, 18 % remission
- [3] Sensing range on black, 6 % remission

Strefa działania



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