



Fotoprzełączniki G10, Fotoprzełącznik refleksyjny, Standard optics

GL10-N1221



Nazwa modelu > **GL10-N1221**

Numer części > **1064701**



Produkt może różnić się od ilustracji

At a glance

- Long sensing ranges: up to 14 m on PL80A reflector
- 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
- With or without sensitivity adjustment
- 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 GL10 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, connecting cables, and reflectors



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny, Standard optics
Wymiary (Szer. x Wys. x Głęb.):	20 mm x 50 mm x 39 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania::	0,08 m ... 12,5 m, 0,08 m ... 14 m ^{1) 2)}
Strefa działania::	0,15 m ... 10,5 m, 0,15 m ... 12 m ^{3) 4)}
Rodzaj światła:	Światło podczerwone
Nadajnik światła:	LED ⁵⁾
Długość fali:	850 nm
Nastawa:	Potentiometer, 270 °
Średnica plamki świetlnej (odległość):	Ø 154 mm (5 m)

^{1) 3)} PL80A ^{2) 4)} P250 ⁵⁾ Average service life of 100,000 h at T_A = +25 °C

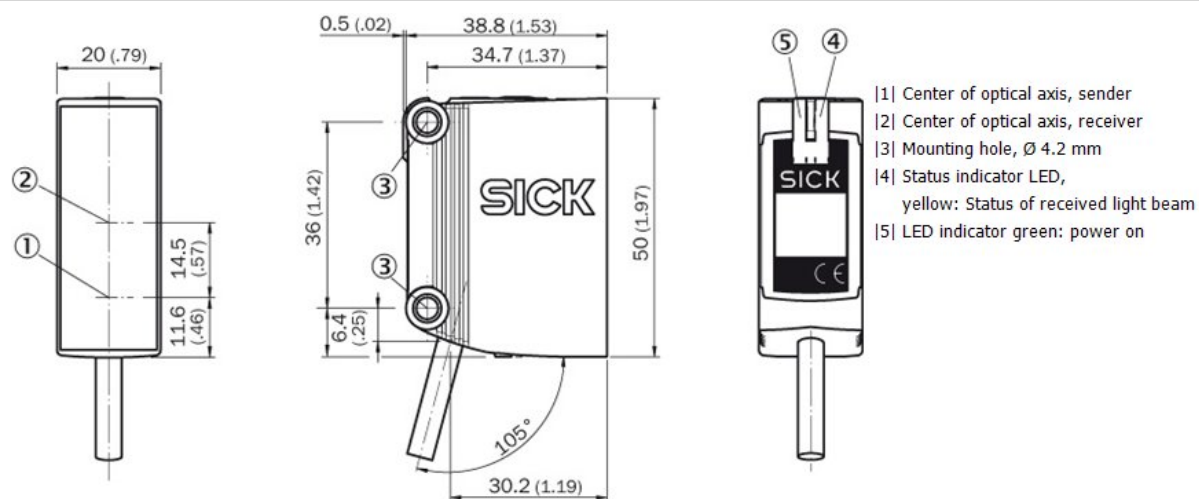
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	± 5 Vss ²⁾

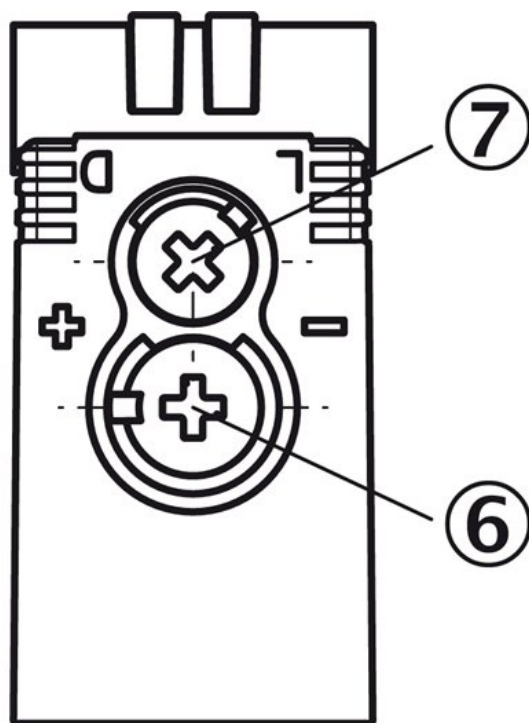
Current consumption:	≤ 20 mA
Wyjście przełączające:	NPN, open collector
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane
Switching mode selector:	Selectable via light/dark selector
Output current I _{max} :	≤ 100 mA
Czas reakcji:	≤ 500 μs ³⁾
Sposób przyłączenia:	Cable, 3-wire, 2 m ⁴⁾
Cable material:	PVC
Przekrój przewodu:	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.:	1.000 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

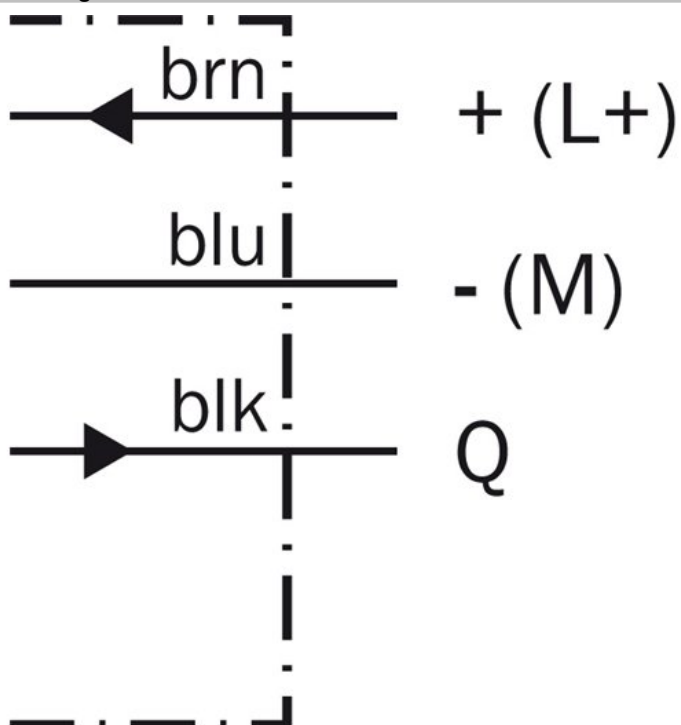


Adjustments possible

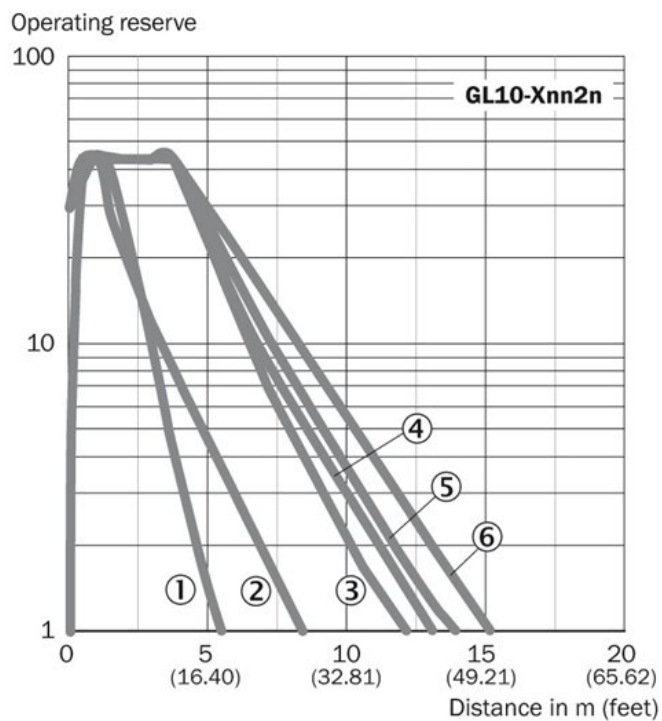


- [6] Sensing range adjustment
- [7] Light/dark selector

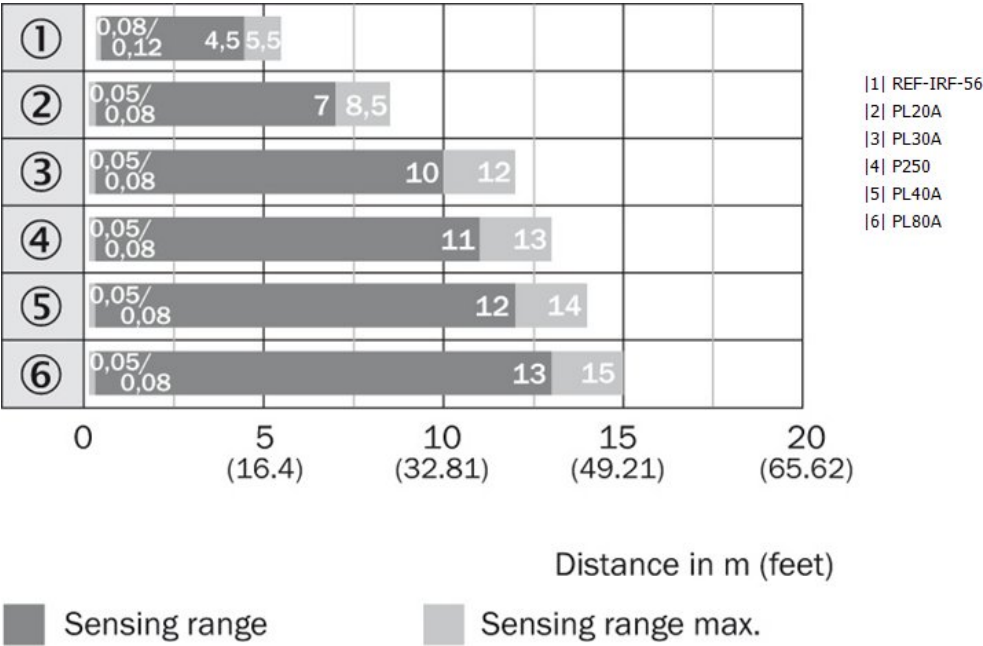
Connection diagram



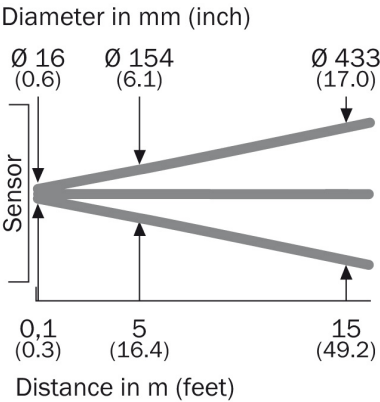
Characteristic curve



Sensing range diagram



Light spot size



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