



Fotoprzełączniki G10, Fotoprzełącznik refleksyjny, Standard optics

GL10-N4212



Nazwa modelu > **GL10-N4212**

Numer części > **1065891**



Produkt może różnić się od ilustracji

At a glance

- Long sensing ranges: up to 15 m on PL80A reflector
- 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
- 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 m, 0,08 m ... 15 m ^{1) 2)}
Strefa działania::	0,15 m ... 10 m, 0,15 m ... 12 m ^{3) 4)}
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	Pin Point LED ⁵⁾
Długość fali:	625 nm
Nastawa:	Potentiometer, 270 °
Średnica plamki świetlnej (odległość):	Ø 58 mm (5 m)

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

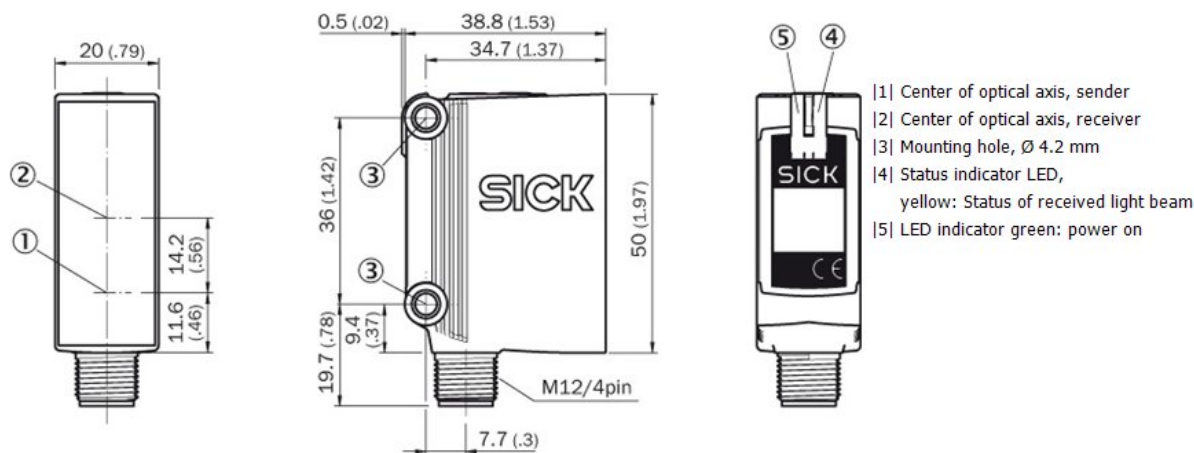
Mechanika/elektronika

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

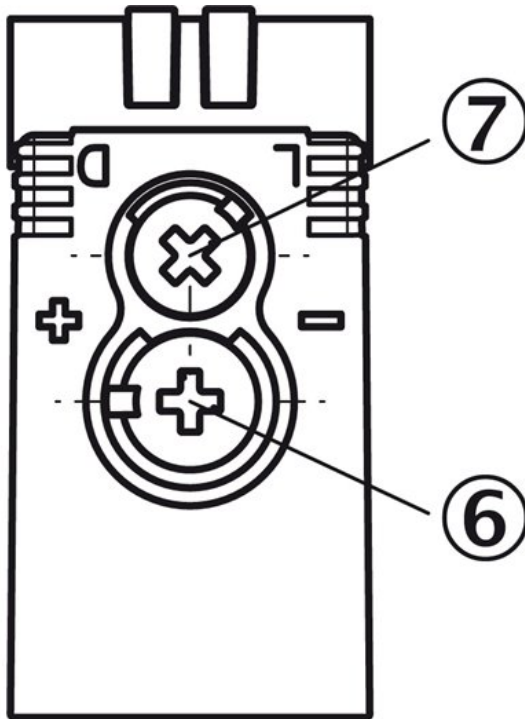
Pobór prądu:	≤ 20 mA
Switching output:	NPN, open collector
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane
Switching mode selector:	Selectable via light/dark selector
Output current I _{max} :	≤ 100 mA
Czas reakcji:	≤ 500 μs ³⁾
Typ połączenia:	Connector M12, 4-pin
Układ zabezpieczenia::::	A, B, C, D ^{4) 5) 6) 7)}
Klasa ochronności:	III
Ciężar:	35 g
Filtr polaryzacyjny:	✓
Rodzaj zabezpieczenia:	IP 67
Dostawa:	Mounting bracket BEF-G10DC01, Reflector P250
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 ⁸⁾
Switching frequency max.:	1.000 Hz ⁹⁾
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⁾ A = V_S
connections reverse-polarity protected ⁵⁾ B = inputs and output reverse-polarity protected ⁶⁾ C = interference suppression ⁷⁾ D = outputs overcurrent and short-circuit
protected ⁸⁾ Complies with the UL325 standard when used with sturdy protection hood (e.g. BEF-G10WSG, 2071960). ⁹⁾ With light/dark ratio 1:1

Rysunek techniczny

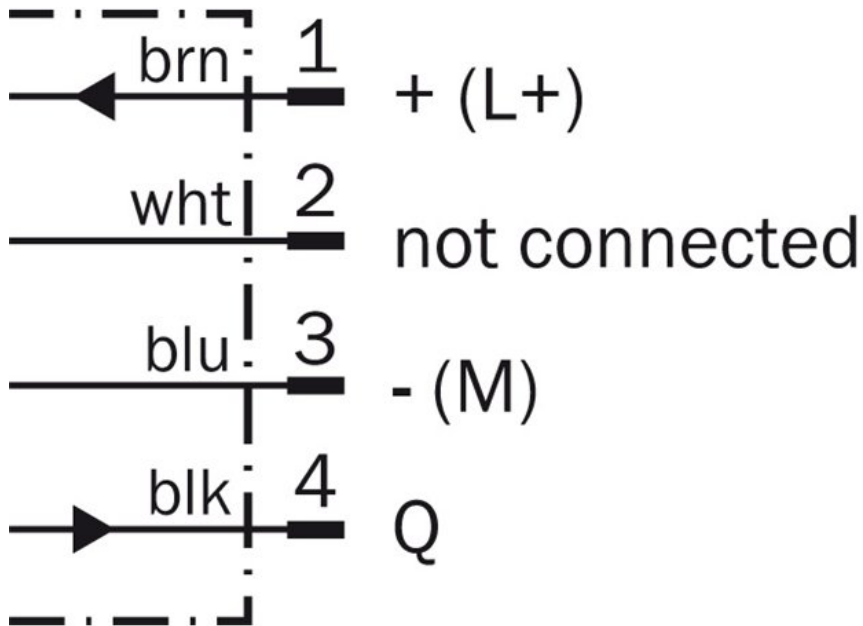


Adjustments possible

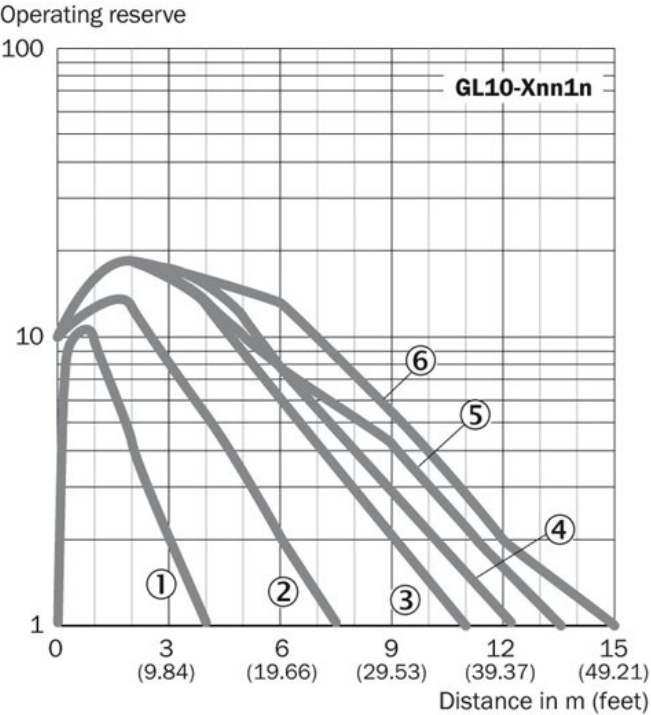


- |6| Sensing range adjustment
- |7| Light/dark selector

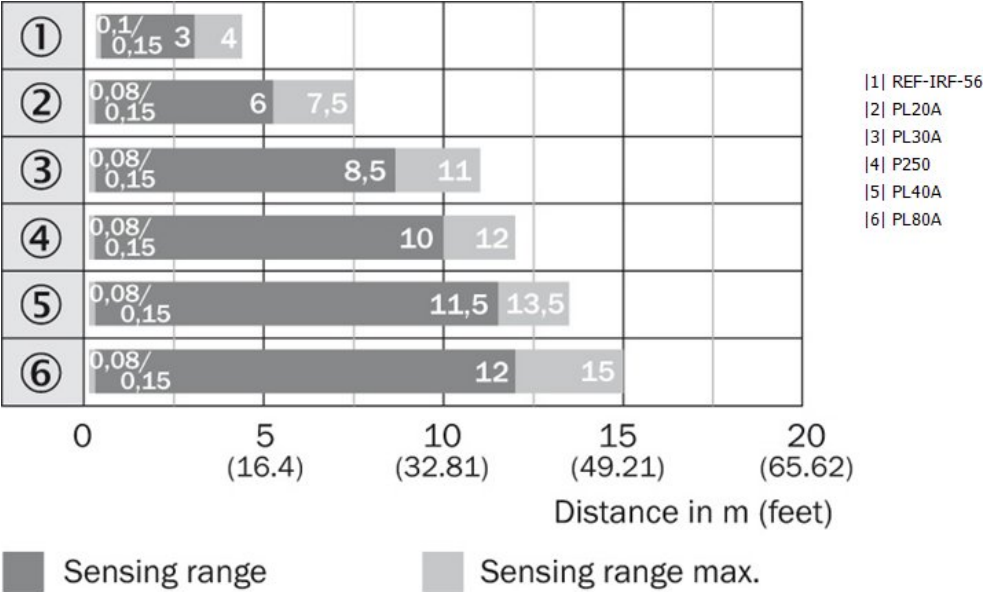
Connection diagram



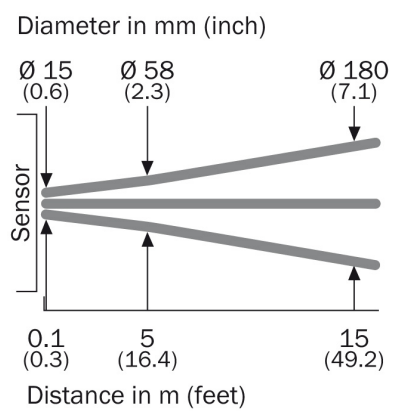
Characteristic curve



Sensing range diagram



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