



## Fotoprzełączniki G10, Fotoprzełącznik refleksyjny, Standard optics

GL10-N4111



Nazwa modelu > **GL10-N4111**

Numer części > **1065883**



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 <sup>1) 2)</sup> |
| Strefa działania::                         | 0,15 m ... 10 m, 0,15 m ... 12 m <sup>3) 4)</sup> |
| Rodzaj światła:                            | Widzialne światło czerwone                        |
| Nadajnik światła:                          | Pin Point LED <sup>5)</sup>                       |
| Długość fali:                              | 625 nm                                            |
| 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<sub>A</sub> = +25 °C

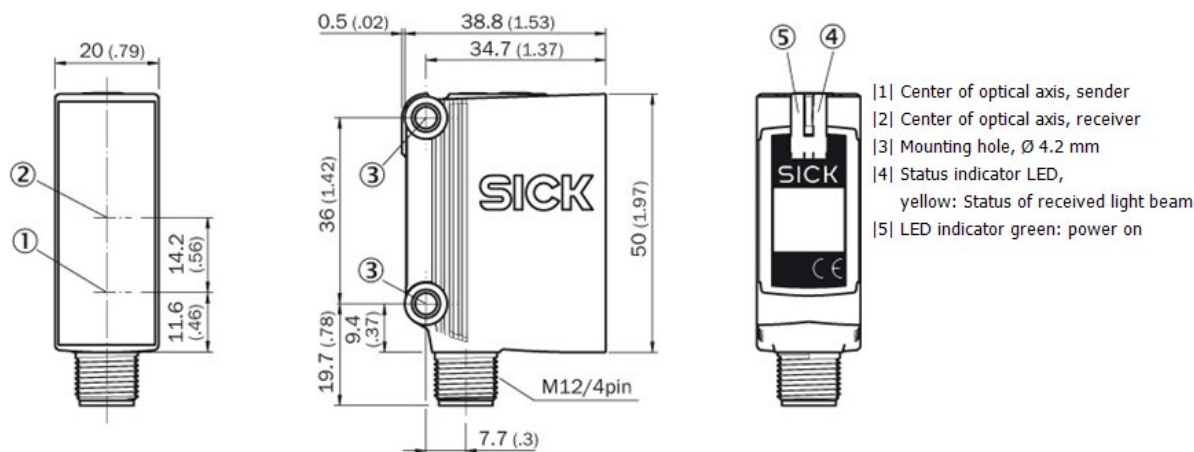
#### Mechanika/elektronika

|                      |                                   |
|----------------------|-----------------------------------|
| Napięcie zasilania:  | 10 V DC ... 30 V DC <sup>1)</sup> |
| Tętnienia resztkowe: | ± 5 Vss <sup>2)</sup>             |
| Current consumption: | ≤ 20 mA                           |

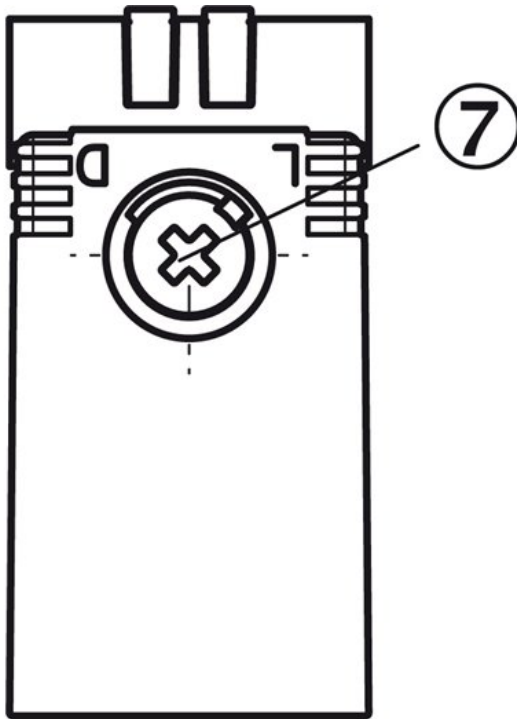
|                                     |                                      |
|-------------------------------------|--------------------------------------|
| Wyjście przełączające:              | NPN, open collector                  |
| Tryb przełączania:                  | Przełączanie jasno/ciemno, wybierane |
| Switching mode selector:            | Selectable via light/dark selector   |
| Output current I <sub>max</sub> :   | ≤ 100 mA                             |
| Czas reakcji:                       | ≤ 500 μs <sup>3)</sup>               |
| Sposób przyłączenia:                | Connector M12, 4-pin                 |
| Układ zabezpieczenia:::             | A, B, C, D <sup>4) 5) 6) 7)</sup>    |
| Klasa ochronności:                  | III                                  |
| Ciężar:                             | 35 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 <sup>8)</sup>                  |
| Switching frequency max.:           | 1.000 Hz <sup>9)</sup>               |
| Housing material:                   | PVC/PMMA, Tworzywo sztuczne          |

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

## Rysunek techniczny

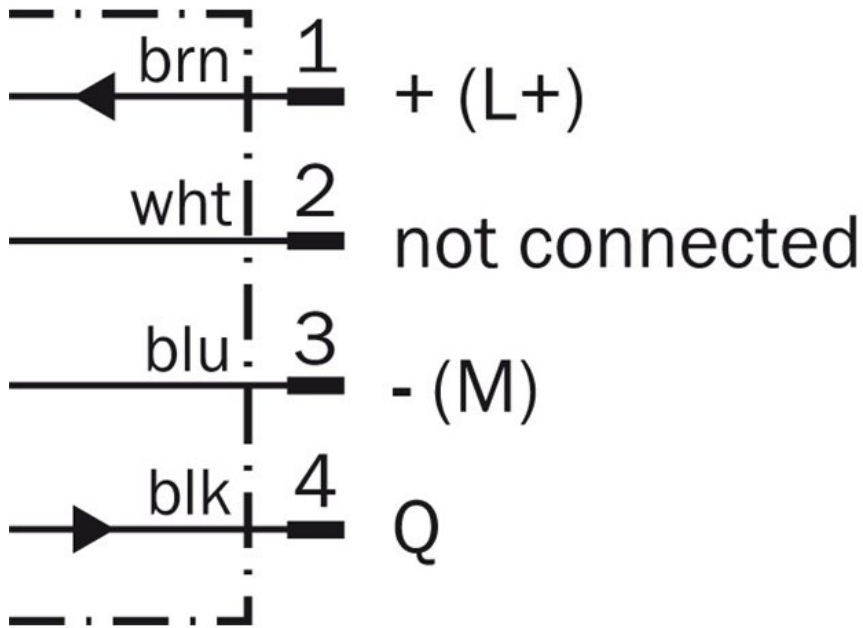


Adjustments possible

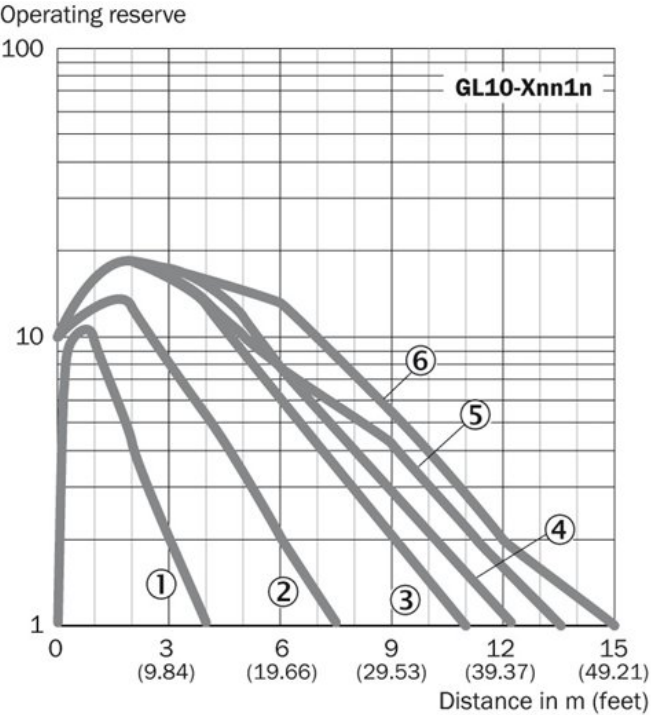


|7| Light/dark selector

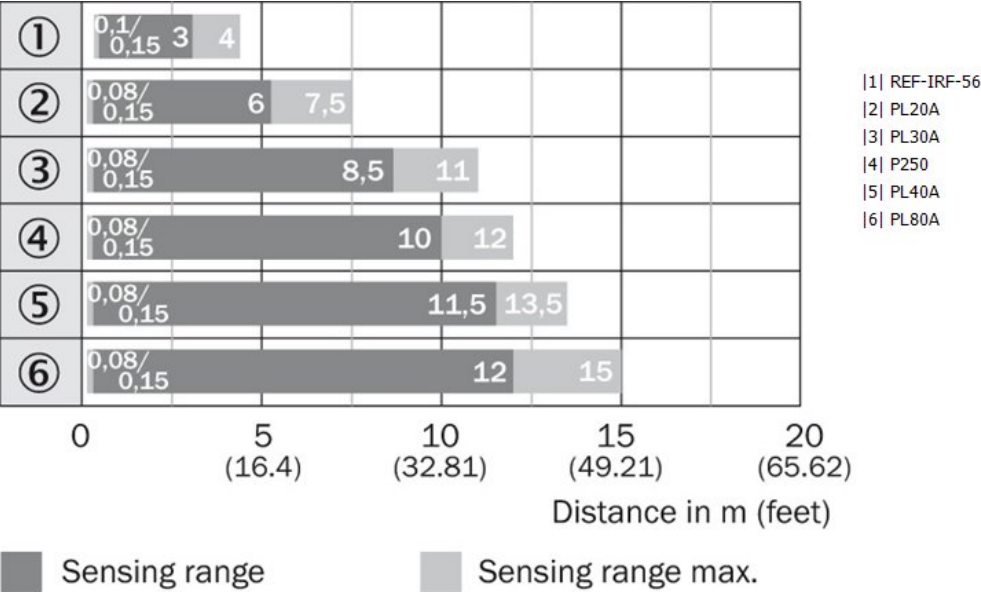
Connection diagram



Characteristic curve

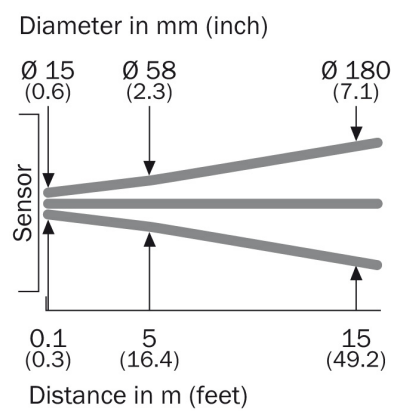


Sensing range diagram



## Średnica plamki świetlnej

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