



## Fotoprzełączniki G6, Fotoprzełącznik odbiciowy, energetyczny

GTE6-N4211



Nazwa modelu > **GTE6-N4211**

Numer części > **1050711**



Produkt może różnić się od ilustracji

#### At a glance

- PinPoint LED for a bright, precise light spot
- Durable metal threaded inserts
- SICK ASIC technology - the result of decades of experience in photoelectric sensors
- Large, user-friendly potentiometer
- Large, bright indicator LEDs
- IP 67 enclosure rating

#### Your benefits

- Easy alignment and precise object detection due to a highly visible PinPoint LED
- Quick and easy mounting and high durability due to threaded metal inserts
- SICK ASIC technology provides high performance, excellent reliability and crosstalk immunity
- Easy to adjust due to large, user-friendly potentiometers
- Easy to monitor due to large, bright indicator LEDs
- Easy installation with SICK accessories



#### Cechy

|                                            |                                         |
|--------------------------------------------|-----------------------------------------|
| Zasada działania czujnika/Sposób detekcji: | Fotoprzełącznik odbiciowy, energetyczny |
| Wymiary (Szer. x Wys. x Głęb.):            | 12 mm x 31,5 mm x 21 mm                 |
| Housing design (light emission):           | Prostopadłościenna                      |
| Maks. strefa działania:                    | ≤ 300 mm <sup>1)</sup>                  |
| Sensing range:                             | ≤ 250 mm                                |
| Rodzaj światła:                            | Widzialne światło czerwone              |
| Nadajnik światła:                          | Pin Point LED <sup>2)</sup>             |
| Długość fali:                              | 650 nm                                  |
| Nastawa:                                   | Potencjometr, 5 obrotów                 |
| Średnica plamki świetlnej (odległość):     | Ø 7 mm (90 mm)                          |

<sup>1)</sup> Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) <sup>2)</sup> Average service life of 100,000 h at T<sub>A</sub> = +25 °C

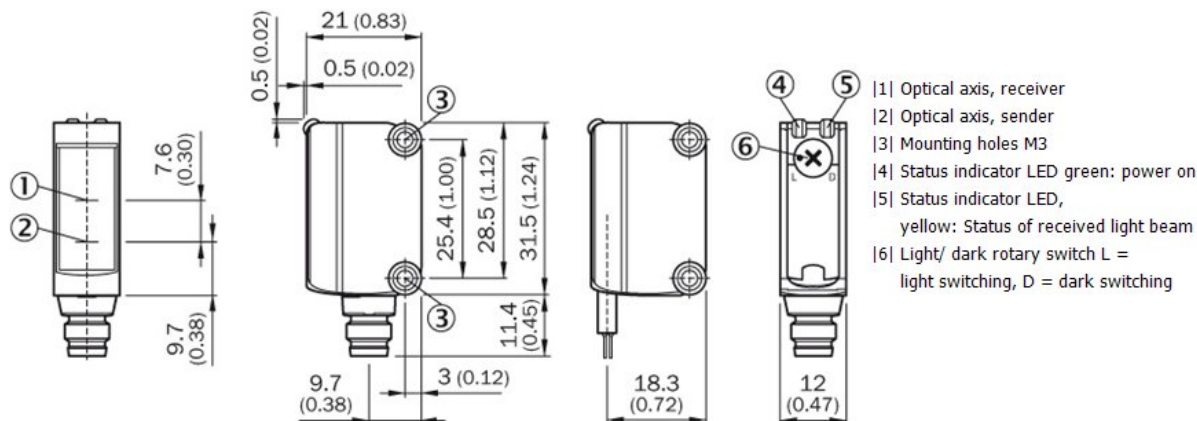
#### Mechanika/elektronika

|                        |                                      |
|------------------------|--------------------------------------|
| Napięcie zasilania:    | 10 V DC ... 30 V DC <sup>1)</sup>    |
| Pobór prądu:           | ≤ 30 mA <sup>2)</sup>                |
| Wyjście przełączające: | NPN, open collector                  |
| Tryb przełączania:     | Przełączanie jasno/ciemno, wybierane |

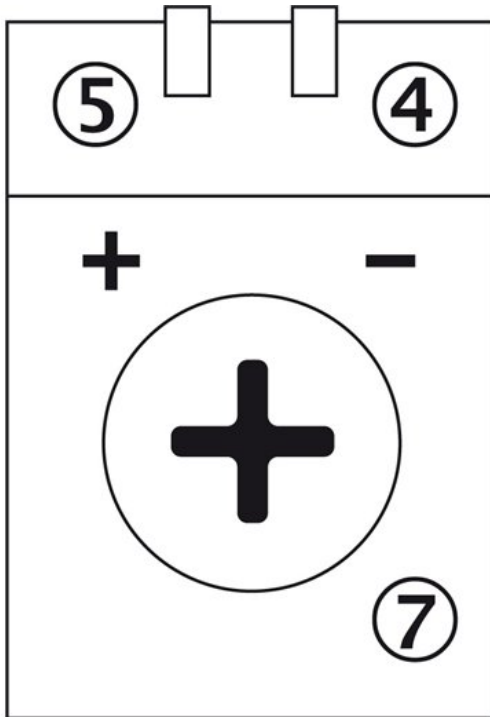
|                                   |                                                   |
|-----------------------------------|---------------------------------------------------|
| Switching mode selector:          | Selectable via light/dark selector                |
| Napięcie sygnału NPN HIGH/LOW:    | Approx. $V_S / \leq 3 \text{ V}$                  |
| Output current $I_{\text{max}}$ : | $\leq 100 \text{ mA}$ <sup>3)</sup>               |
| Czas reakcji:                     | $< 1,25 \mu\text{s}$ <sup>4)</sup>                |
| Switching frequency:              | 500 Hz <sup>5)</sup>                              |
| Sposób przyłączenia:              | Connector M8, 4-pin                               |
| Układ zabezpieczenia:::           | A, B, D <sup>6)</sup> <sup>7)</sup> <sup>8)</sup> |
| Ciężar:                           | 20 g                                              |
| Filtr polaryzacyjny:              | -                                                 |
| AS-Interface-Chip:                | -                                                 |
| Tworzywo, obudowa:                | ABS/PC, Tworzywo sztuczne                         |
| Tworzywo, układ optyczny:         | PMMA                                              |
| Rodzaj zabezpieczenia:            | IP 67                                             |
| Ambient operating temperature:    | -25 °C ... 55 °C                                  |
| Ambient storage temperature:      | -40 °C ... 70 °C                                  |

1) Limit values, operation in short-circuit protected network max. 8 A <sup>2)</sup> Bez obciążenia <sup>3)</sup> At  $V_S > 24 \text{ V}$ ,  $I_{\text{A max}} = 50 \text{ mA}$  <sup>4)</sup> Signal transit time with resistive load <sup>5)</sup>  
 With light/dark ratio 1:1 <sup>6)</sup> A =  $V_S$  connections reverse-polarity protected <sup>7)</sup> B = inputs and output reverse-polarity protected <sup>8)</sup> D = outputs overcurrent and short-circuit protected

## Dimensional drawing

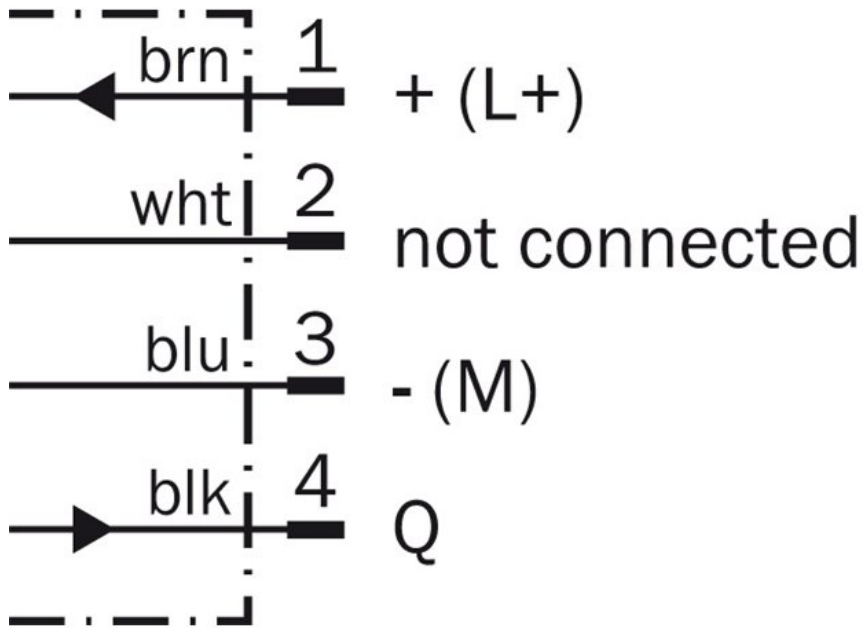


## Adjustments possible

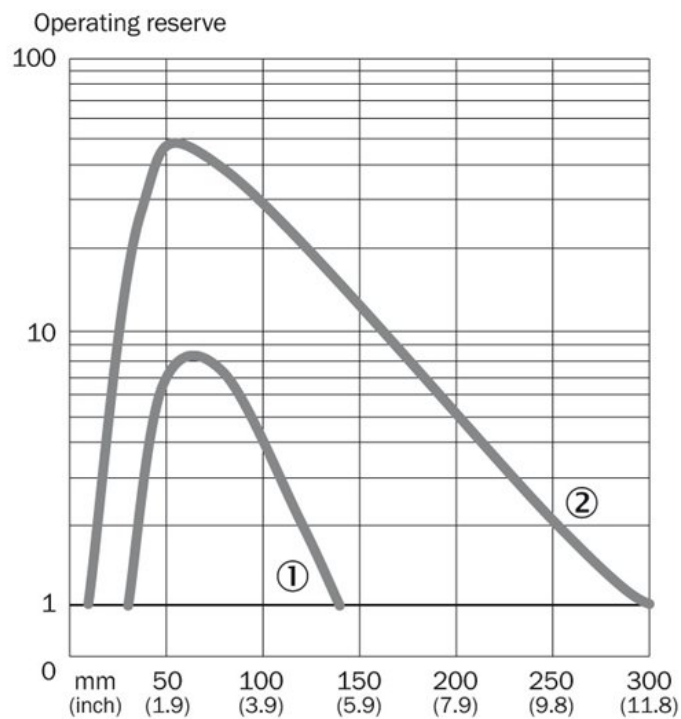


- |4| Status indicator LED green: power on
- |5| Status indicator LED,  
yellow: Status of received light beam
- |7| Sensitivity adjustment: poti

## Connection diagram

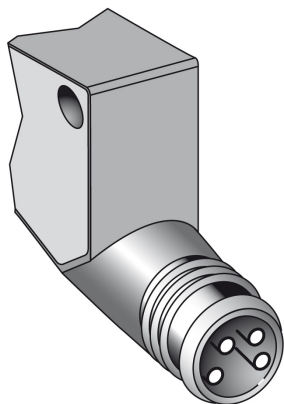


Characteristic curve

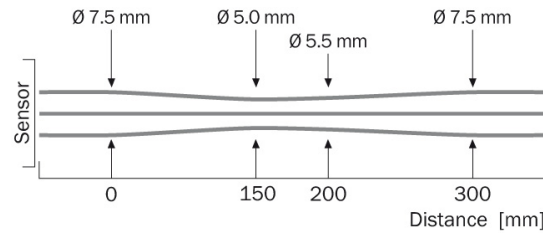


- |1| Sensing range on grey, 18 % remission
- |2| Sensing range on white, 90 % remission

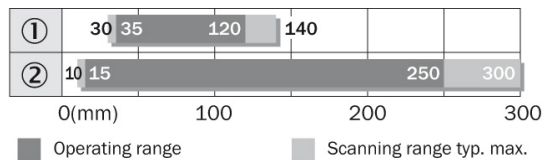
Connection type



Light spot size



Sensing range diagram



- |1| Scanning distance on black, 18 % remission
- |2| Scanning distance on white, 90 % remission

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