



## Fotoprzełączniki V18, Fotoprzełącznik odbiciowy, energetyczny

VTE18-4N4240



Nazwa modelu > **VTE18-4N4240**

Numer części > **6013254**



#### At a glance

- Cylindrical M18 housing
- Three sensing distances of 200 mm, 400 mm or 800 mm
- 3- or 4-wire
- Straight or right-angle housing
- Metal or plastic housing

#### Your benefits

- Simple, standardized design ensures easy mounting, alignment and replacement
- Compact, space-saving design easily fits in tight application spaces



#### Cechy

|                                            |                                         |
|--------------------------------------------|-----------------------------------------|
| Zasada działania czujnika/Sposób detekcji: | Fotoprzełącznik odbiciowy, energetyczny |
| Housing design (light emission):           | Cylindrical, straight, straight         |
| Długość obudowy:                           | 78 mm                                   |
| Thread diameter (housing):                 | M18 x 1                                 |
| Oś optyczna:                               | Osiowa                                  |
| Maks. strefa działania:                    | 5 mm ... 400 mm <sup>1)</sup>           |
| Strefa działania:                          | 5 mm ... 350 mm                         |
| Rodzaj światła:                            | Światło podczerwone                     |
| Nadajnik światła:                          | LED <sup>2)</sup>                       |
| Light spot (distance):                     | 20 mm (400 mm)                          |
| Nastawienie czułości:                      | Potentiometer, 270°                     |
| Kąt promieniowania:                        | 2,8 °                                   |

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

#### Mechanika/elektronika

|                                     |                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------|
| Napięcie zasilania:                 | 10 V DC ... 30 V DC <sup>1)</sup>                                                                        |
| Tętnienia resztkowe:                | ≤ 10 % <sup>2)</sup>                                                                                     |
| Current consumption:                | ≤ 30 mA <sup>3)</sup>                                                                                    |
| Switching output:                   | NPN, przełączanie jasno/ciemno, wybierane, Selectable via L/D control wire, open collector <sup>4)</sup> |
| Output current I <sub>max</sub> ..: | 100 mA                                                                                                   |
| Czas reakcji:                       | ≤ 2 ms <sup>5)</sup>                                                                                     |
| Switching frequency:                | 250 Hz <sup>6)</sup>                                                                                     |
| Sposób przyłączenia:                | Connector M12, 4-pin                                                                                     |

Układ zabezpieczenia:::

Klasa ochrony:

Ciężar:

Tworzywo, obudowa:

Tworzywo, układ optyczny:

Rodzaj zabezpieczenia:

Ambient operating temperature:

UL File-No.:

A, B, C, D <sup>7)</sup> <sup>8)</sup> <sup>9)</sup> <sup>10)</sup>

III

120 g

Mosiądz niklowany

PMMA

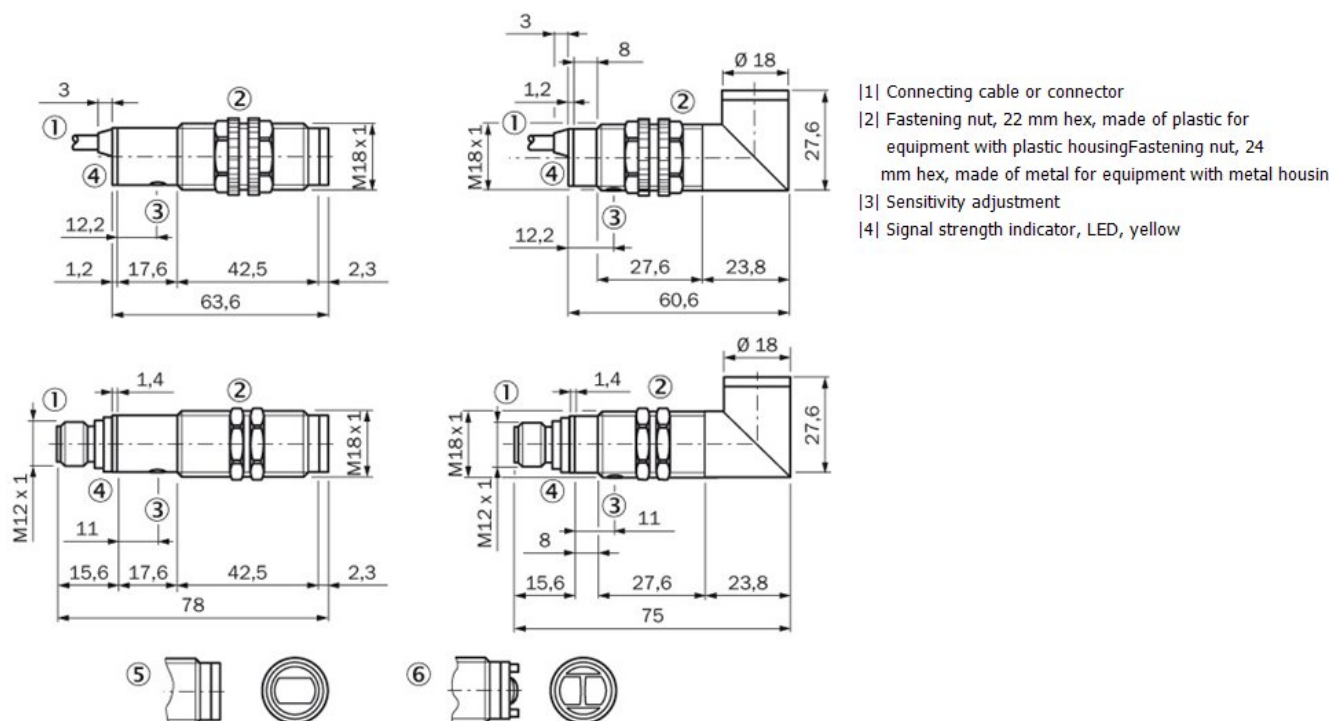
IP 67

-25 °C ... 70 °C

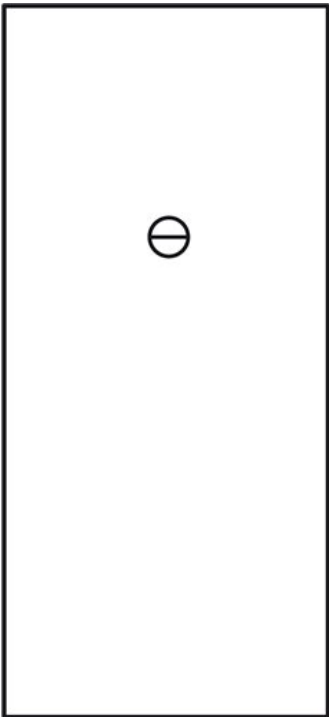
UL No. NMFT2.E175606

<sup>1)</sup> Limit values <sup>2)</sup> May not exceed or fall short of  $V_S$  <sup>3)</sup> Bez obciążenia <sup>4)</sup> Control wire open: light-switching L.ON <sup>5)</sup> Signal transit time with resistive load <sup>6)</sup> With light/dark ratio 1:1 <sup>7)</sup>  $A = V_S$  connections reverse-polarity protected <sup>8)</sup> B = inputs and output reverse-polarity protected <sup>9)</sup> C = interference suppression <sup>10)</sup> D = outputs overcurrent and short-circuit protected

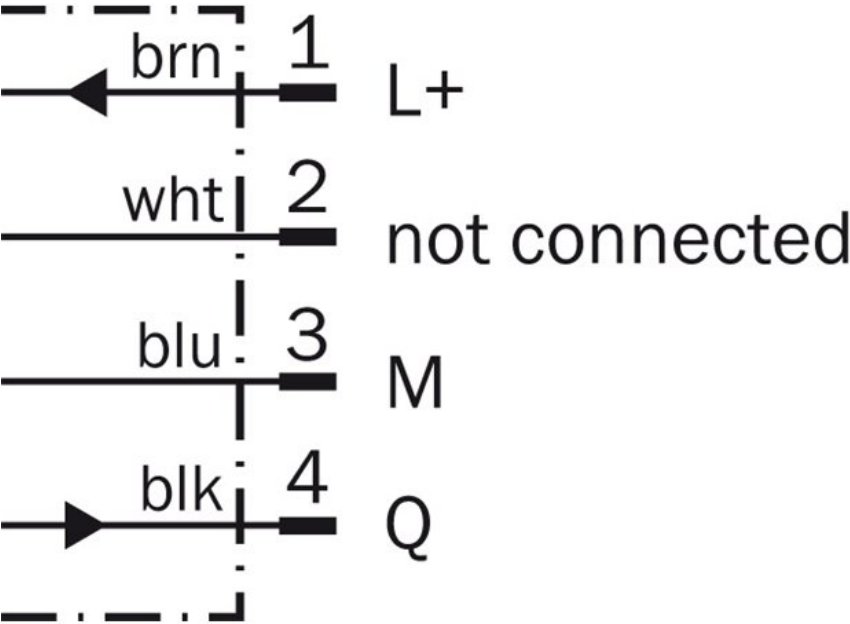
## Dimensional drawing



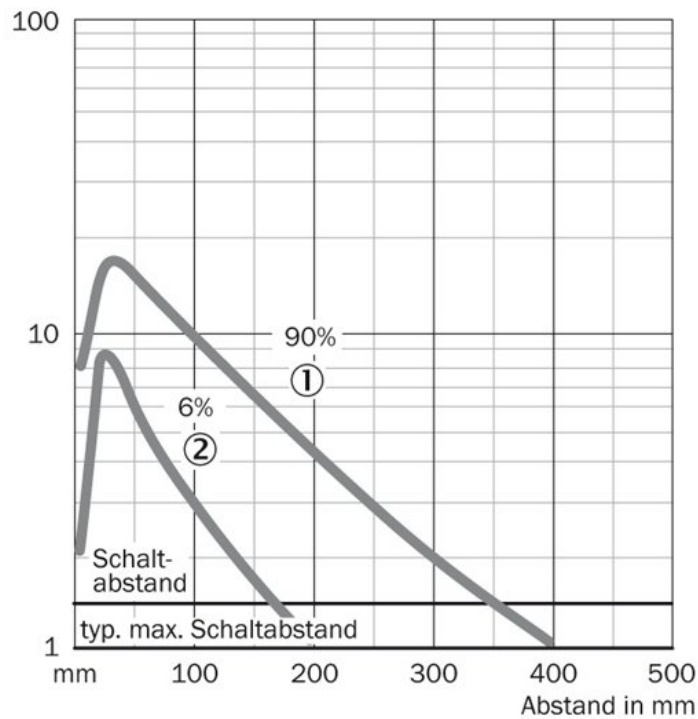
Adjustments possible



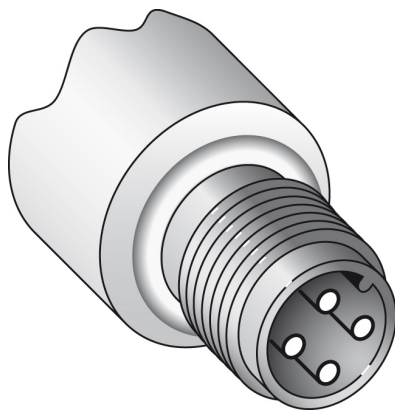
Connection diagram



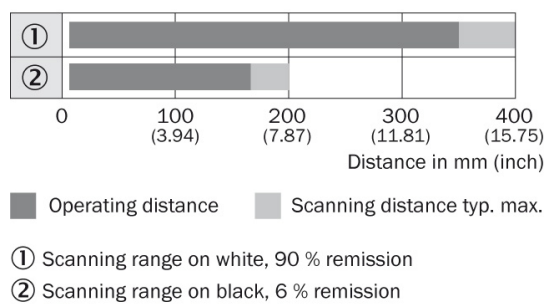
Characteristic curve



Connection type



Sensing range diagram



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