



## Fotoprzełączniki V18, Fotoprzełącznik barierowy

VS/VE18-3F3140



Nazwa modelu > [VS/VE18-3F3140](#)

Numer części > [6013674](#)



#### At a glance

- Cylindrical M18 housing
- Sensing distance up to 20 m
- 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 barierowy       |
| Housing design (light emission):           | Cylindrical, straight, straight |
| Długość obudowy:                           | 78 mm                           |
| Thread diameter (housing):                 | M18 x 1                         |
| Oś optyczna:                               | Osiowa                          |
| Maks. strefa działania:                    | 0 m ... 20 m                    |
| Strefa działania:                          | 0 m ... 14 m                    |
| Rodzaj światła:                            | Światło podczerwone             |
| Nadajnik światła:                          | LED <sup>1)</sup>               |
| Light spot diameter (distance):            | 700 mm (14 m)                   |
| Kąt promieniowania:                        | 2,8 °                           |

<sup>1)</sup> Average service life 100,000 h at Ta = +25 °C

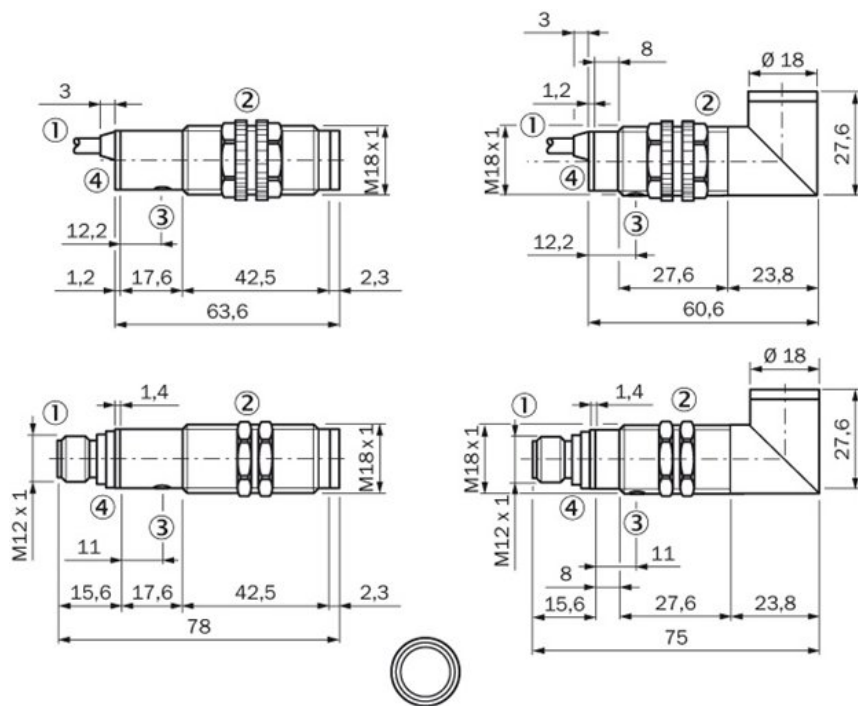
#### Mechanika/elektronika

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Napięcie zasilania:               | 10 V DC ... 30 V DC <sup>1)</sup>    |
| Tętnienia resztkowe:              | ≤ 10 % <sup>2)</sup>                 |
| Current consumption:              | ≤ 30 mA <sup>3)</sup>                |
| Wyjście przełączające:            | PNP, Light-switching, open collector |
| Output current I <sub>max</sub> : | 100 mA <sup>4)</sup>                 |
| Czas reakcji:                     | ≤ 2 ms <sup>4)</sup>                 |
| Switching frequency:              | 250 Hz <sup>5)</sup>                 |
| Typ połączenia:                   | Connector M12, 4-pin                 |
| Układ zabezpieczenia::::          | A, B, C, D <sup>6) 7) 8) 9)</sup>    |
| Klasa ochronności:                | III                                  |

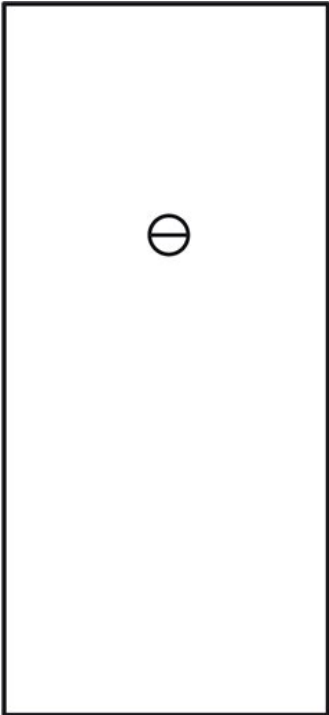
|                                      |                      |
|--------------------------------------|----------------------|
| Ciężar:                              | 240 g                |
| Tworzywo, obudowa:                   | Mosiądz niklowany    |
| Rodzaj zabezpieczenia:               | IP 67                |
| Wejście testowe, nadajnik wyłączony: | TE to 0 V            |
| Ambient operating temperature:       | -25 °C ... 70 °C     |
| UL File-No.:                         | UL No. NMFT2.E175606 |
| Switching mode characteristic:       | Open collector       |

<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> 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> C = interference suppression   <sup>9)</sup> D = outputs overcurrent and short-circuit protected

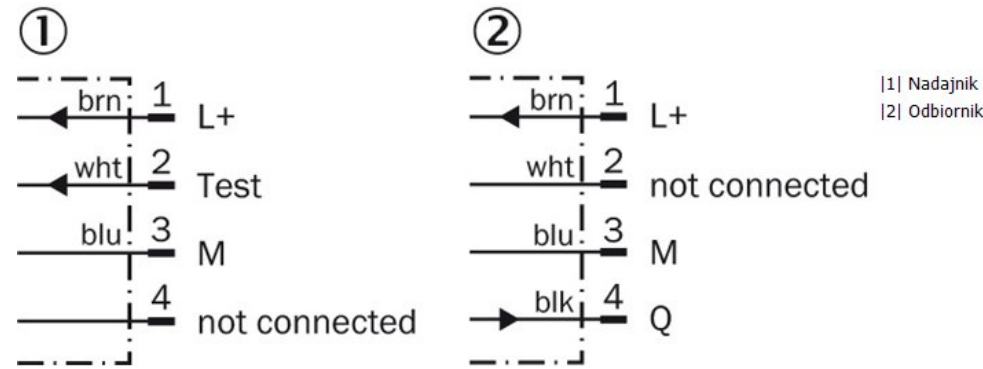
## Dimensional drawing



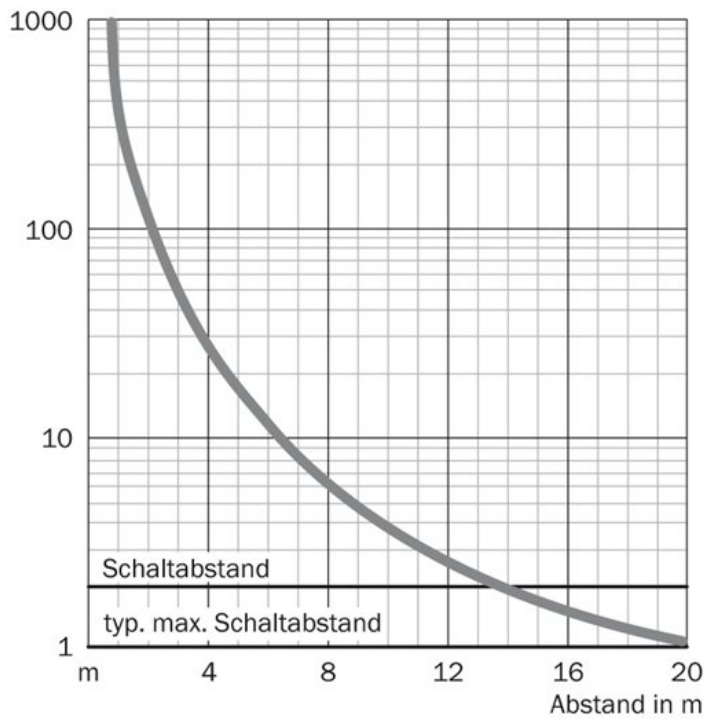
Adjustments possible



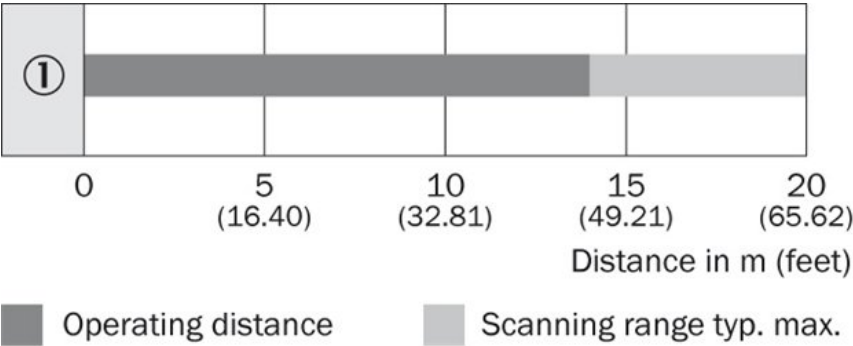
Connection diagram



Characteristic curve

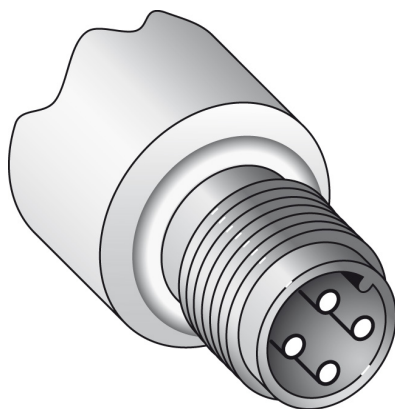


Sensing range diagram



## Connection type

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