



## Photoelectric sensors V18, Photoelectric proximity sensor, energetic

VTE18-4N8112



**Model Name** > [VTE18-4N8112](#)  
**Part No.** > [6013090](#)



*Illustration may differ*

#### 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



#### Features

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Sensor/detection principle:      | Photoelectric proximity sensor, energetic |
| Housing design (light emission): | Cylindrical, straight, straight           |
| Housing length:                  | 63.6 mm                                   |
| Thread diameter (housing):       | M18 x 1                                   |
| Optical axis:                    | Axial                                     |
| Sensing range max.:              | 10 mm ... 800 mm <sup>1)</sup>            |
| Sensing range:                   | 10 mm ... 700 mm                          |
| Type of light:                   | Infrared light                            |
| Light source:                    | LED <sup>2)</sup>                         |
| Light spot (distance):           | 40 mm (800 mm)                            |
| Angle of dispersion:             | 2.8 °                                     |

<sup>1)</sup> Object with 90 % reflectance (referred to standard white DIN 5033) <sup>2)</sup> Average service life of 100,000 h at T<sub>A</sub> = +25 °C

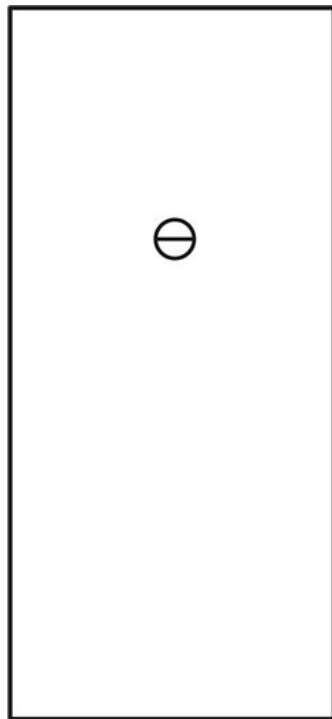
#### Mechanics/electronics

|                                    |                                                                            |
|------------------------------------|----------------------------------------------------------------------------|
| Supply voltage:                    | 10 V DC ... 30 V DC <sup>1)</sup>                                          |
| Ripple:                            | ≤ 10 % <sup>2)</sup>                                                       |
| Power consumption:                 | ≤ 30 mA <sup>3)</sup>                                                      |
| Output type:                       | NPN, Light/dark-switching, Selectable via L/D control wire, open collector |
| Output current I <sub>max.</sub> : | 100 mA <sup>5)</sup>                                                       |
| Response time:                     | ≤ 2 ms <sup>5)</sup>                                                       |
| Switching frequency:               | 250 Hz <sup>6)</sup>                                                       |
| Connection type:                   | Cable, 4-wire, 2 m <sup>7)</sup>                                           |
| Cable material:                    | PVC                                                                        |



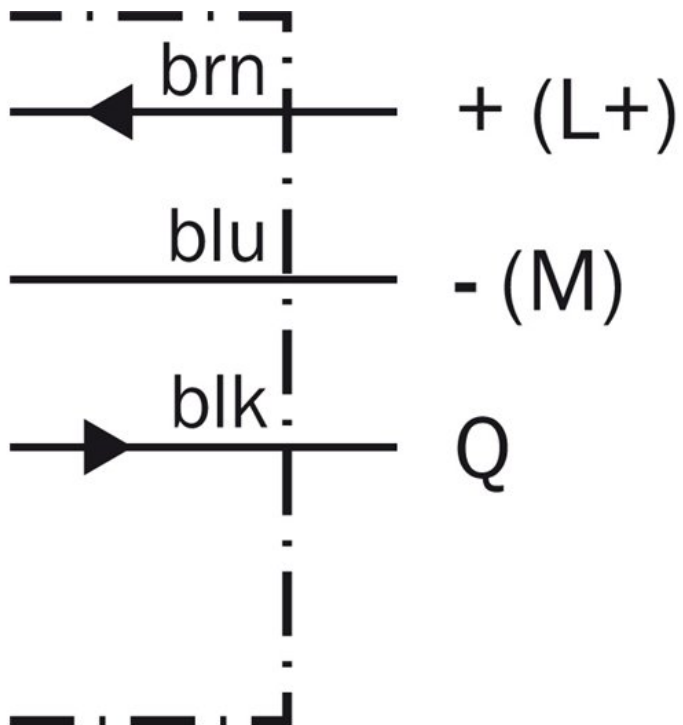
## Adjustments possible

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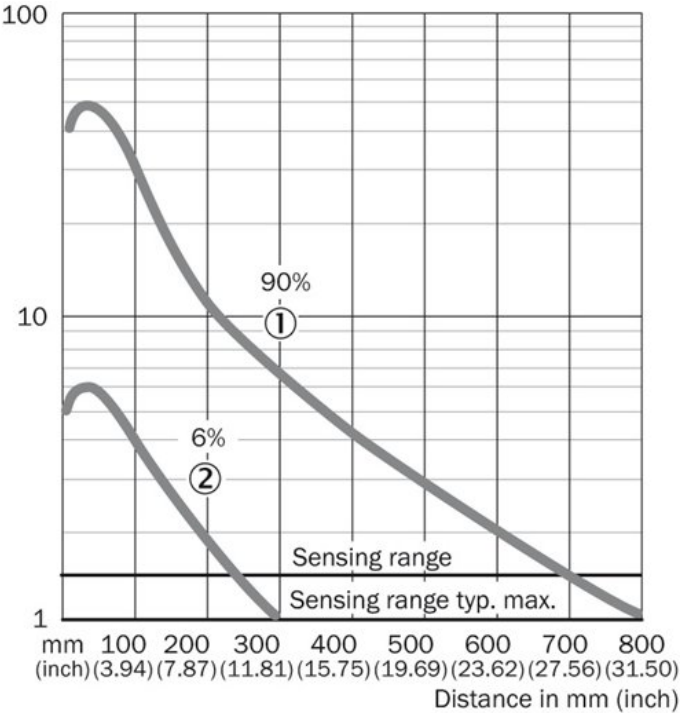


## Connection diagram

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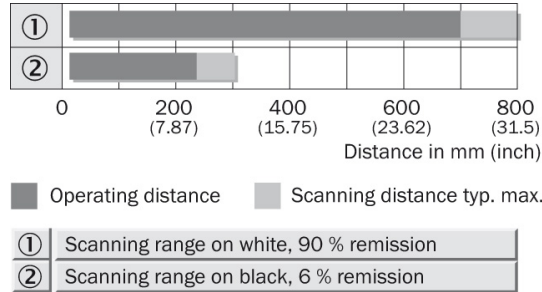
Characteristic curve



Connection type



Sensing range diagram



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