



Photoelectric sensors V18, Photoelectric proximity sensor, energetic

VTE18-3P2612



Model Name > **VTE18-3P2612**
Part No. > **6013453**



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.:	3 mm ... 200 mm ¹⁾
Sensing range:	3 mm ... 170 mm
Type of light:	Infrared light
Light source:	LED ²⁾
Light spot (distance):	10 mm (200 mm)
Angle of dispersion:	2.8 °

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033) ²⁾ Average service life of 100,000 h at T_A = +25 °C

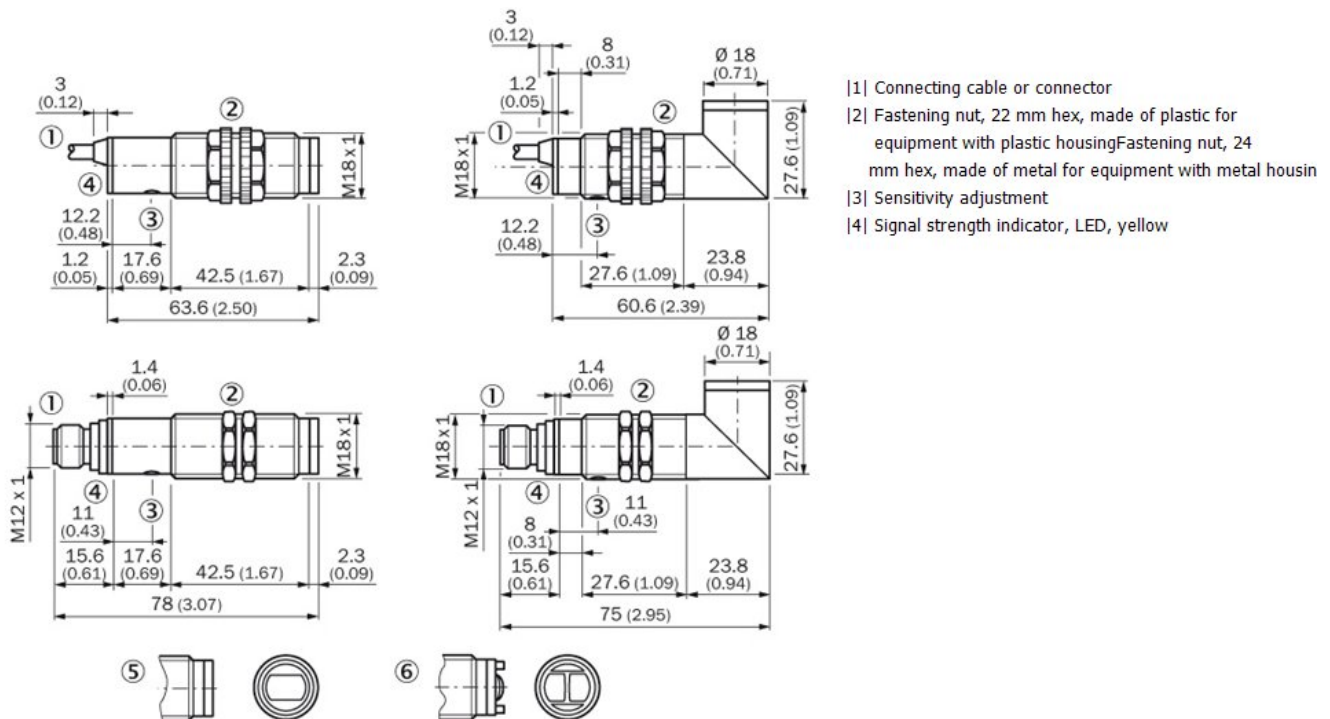
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	≤ 10 % ²⁾
Power consumption:	≤ 30 mA ³⁾
Output type:	PNP, Dark-switching, open collector
Output current I _{max} :	100 mA ⁴⁾
Response time:	≤ 2 ms ⁵⁾
Switching frequency:	250 Hz ⁵⁾
Connection type:	Cable, 3-wire, 2 m ⁶⁾
Cable material:	PVC
Conductor cross-section:	0.14 mm ²

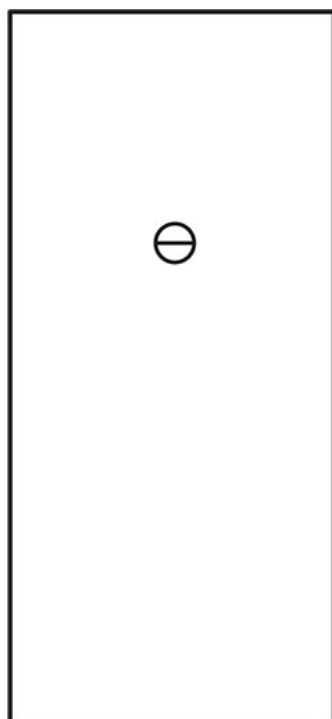
Cable diameter: 3.1 mm
 Circuit protection: A, B, C, D ^{7) 8) 9) 10)}
 Protection class: III
 Weight: 100 g
 Housing material: PBT/PC
 Optics material: PMMA
 Enclosure rating: IP 67
 Ambient operating temperature: -25 °C ... 70 °C
 UL File-No.: UL No. NMFT2.E175606

¹⁾ Limit values ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Without load ⁴⁾ Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ Do not bend
 below 0 °C ⁷⁾ A = V_S connections reverse-polarity protected ⁸⁾ B = inputs and output reverse-polarity protected ⁹⁾ C = interference suppression ¹⁰⁾ D = outputs
 overcurrent and short-circuit protected

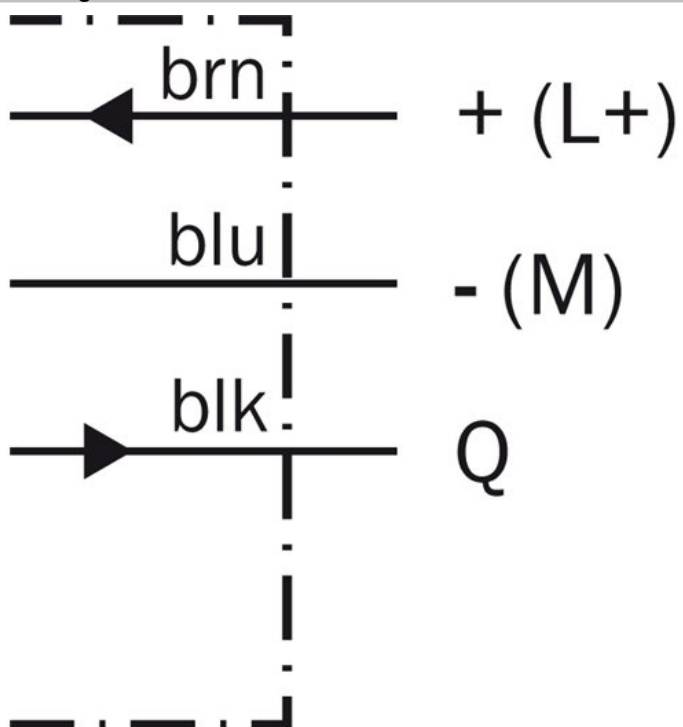
Dimensional drawing



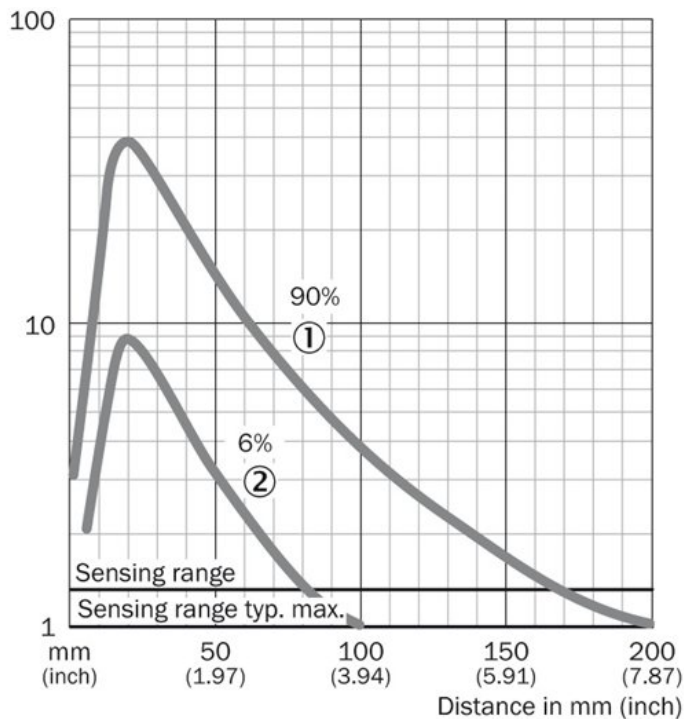
Adjustments possible



Connection diagram



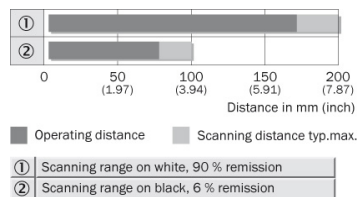
Characteristic curve



Connection type



Sensing range diagram



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