



Photoelectric sensors V18, Photoelectric proximity sensor, energetic

VTE18-4P8612



Model Name > [VTE18-4P8612](#)
Part No. > [6013171](#)



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 ¹⁾
Sensing range:	10 mm ... 700 mm
Type of light:	Infrared light
Light source:	LED ²⁾
Light spot (distance):	40 mm (800 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

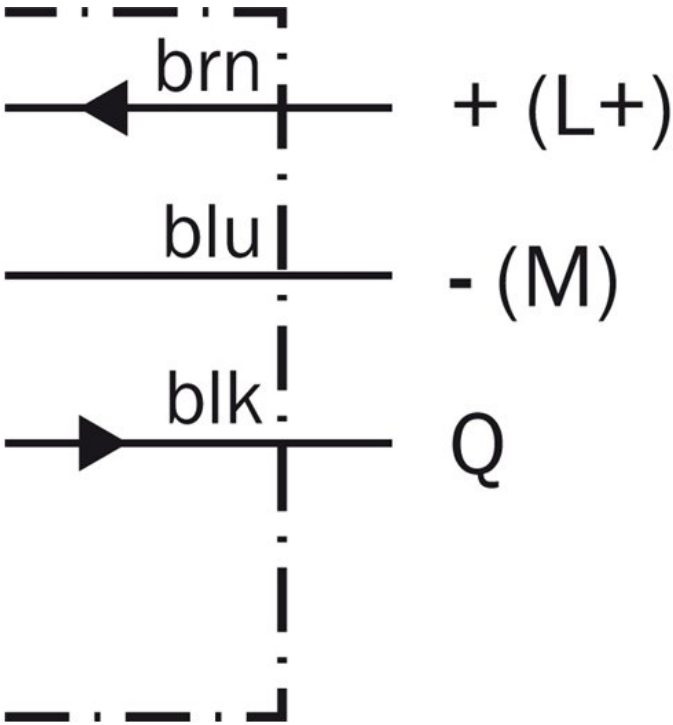
Mechanics/electronics

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

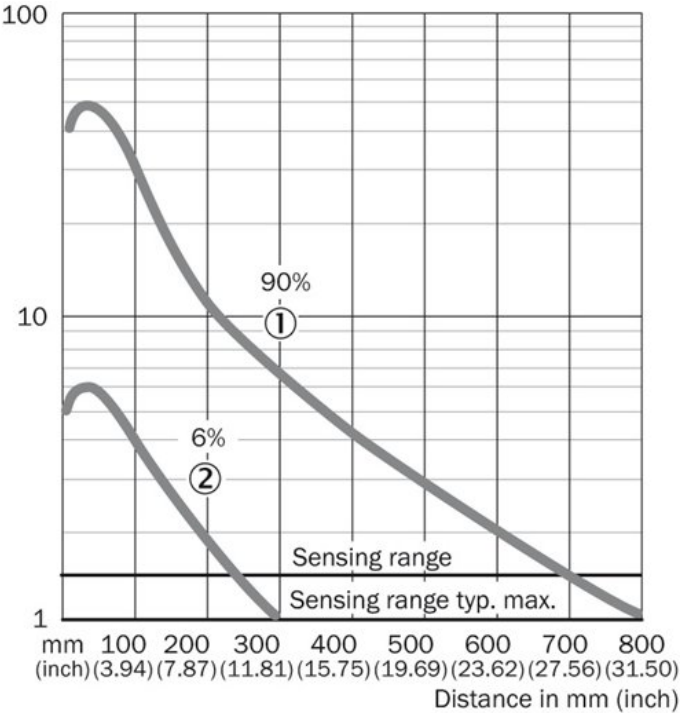
Adjustments possible



Connection diagram



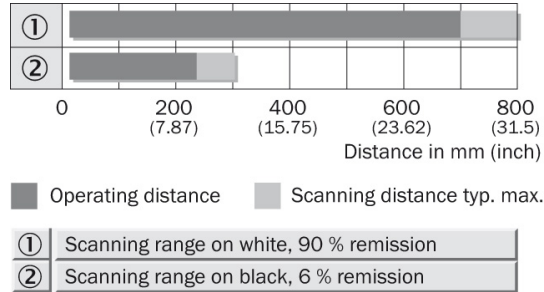
Characteristic curve



Connection type



Sensing range diagram



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