



Photoelectric sensors V18, Photoelectric proximity sensor, energetic

VTE18-3F4740



Model Name > [VTE18-3F4740](#)
Part No. > [6013332](#)



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:	78 mm
Thread diameter (housing):	M18 x 1
Optical axis:	axial
Sensing range max.:	5 mm ... 400 mm ¹⁾
Sensing range:	5 mm ... 350 mm
Type of light:	Infrared light
Light source:	LED ²⁾
Light spot (distance):	20 mm (400 mm)
Sensitivity adjustment:	Potentiometer, 270°
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

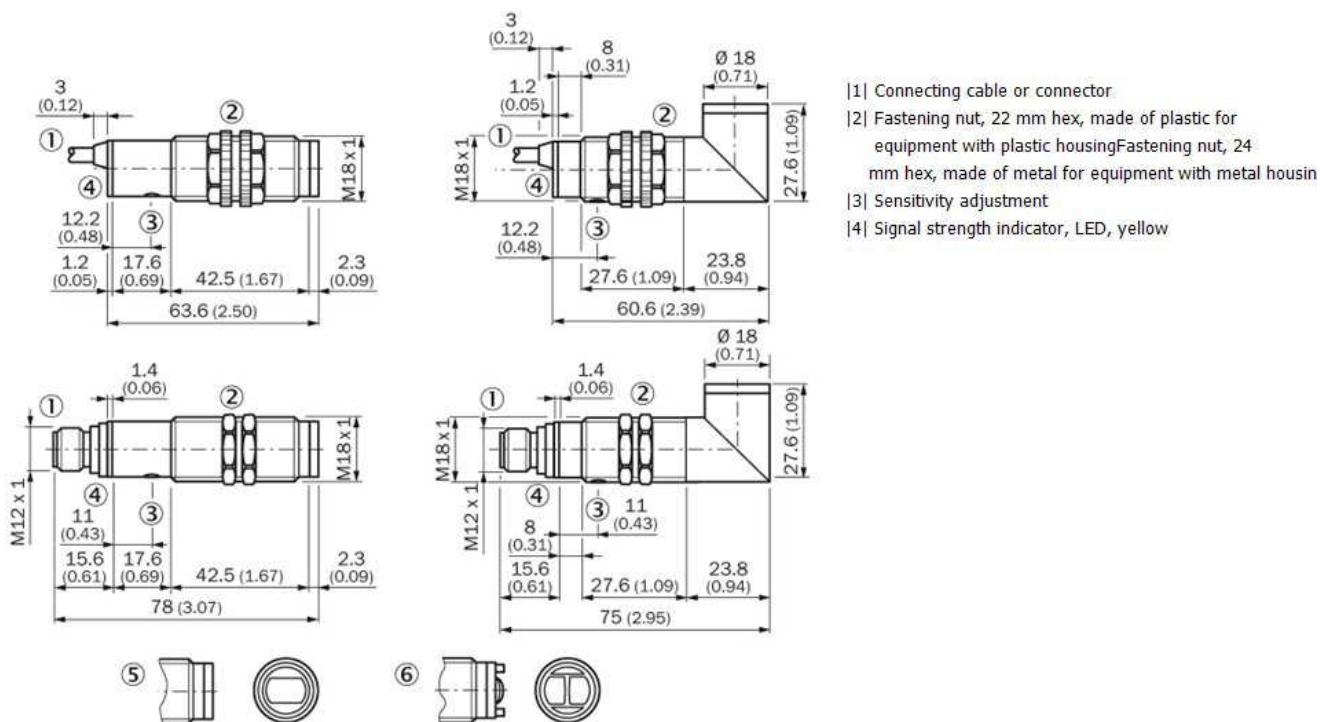
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Residual ripple:	≤ 10 % ²⁾
Power consumption:	≤ 30 mA ³⁾
Output type:	PNP, Light-switching, open collector
Output current I _{max} :	100 mA
Response time:	≤ 2 ms ⁴⁾
Switching frequency:	250 Hz ⁵⁾
Electrical connection:	Connector M12, 4-pin
Circuit protection:::	A, B, C, D ^{6) 7) 8) 9)}

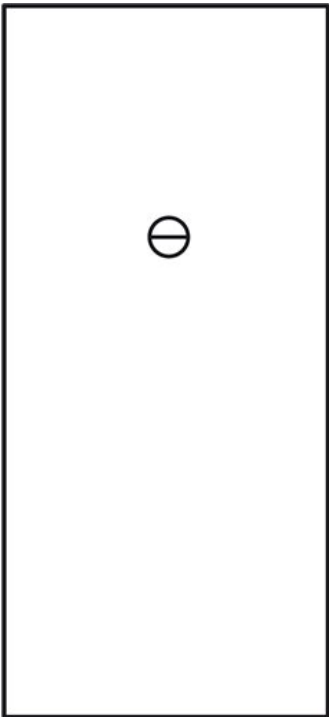
Protection class: III
 Weight: 100 g
 Housing material: PBT/PC
 Optics material: PMMA
 Enclosure rating: IP 67
 Ambient temperature operation: -25 °C ... 70 °C
 UL File-No.: UL No. NMFT2.E175606

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) $A = V_S$
 connections reverse-polarity protected 7) B = inputs and output reverse-polarity protected 8) C = interference suppression 9) D = outputs overcurrent and short-circuit protected

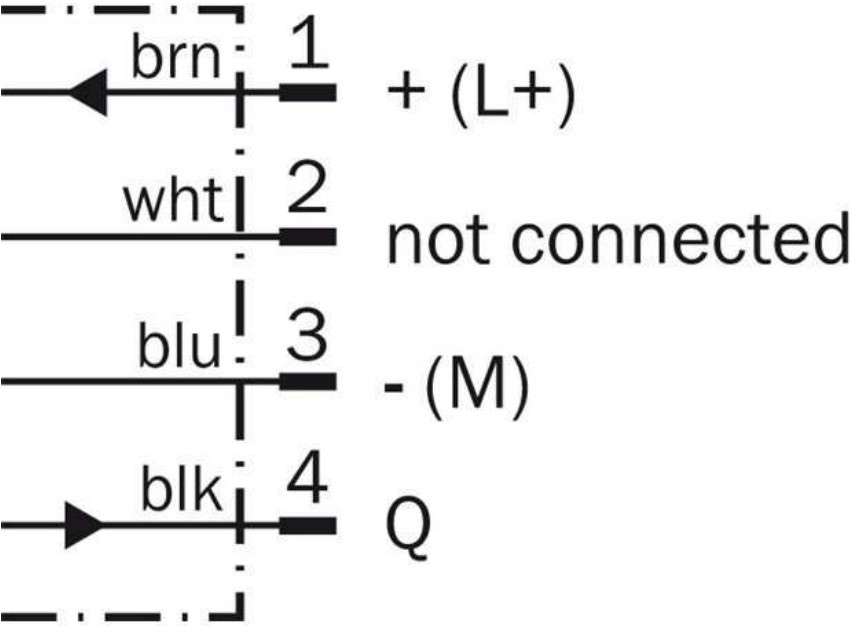
Dimensional drawing



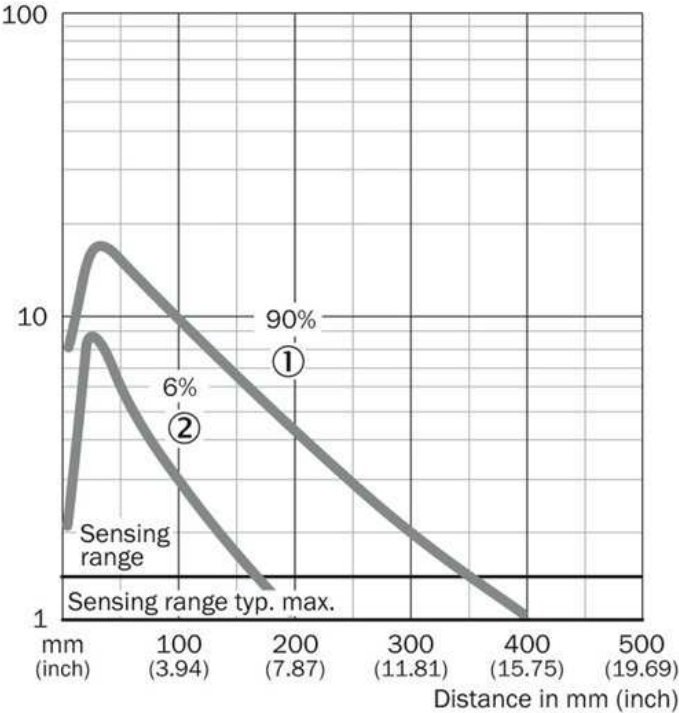
Adjustments possible



Connection diagram



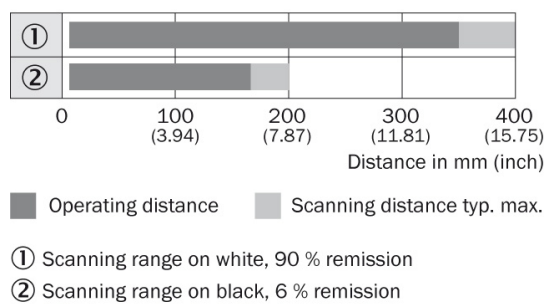
Characteristic curve



Connection type



Sensing range diagram



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