

VTE18L-3F324

PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
VTE18L-3F324	6027594

Other models and accessories → www.sick.com/

Illustration may differ



Detailed technical data

Features

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Functional principle	Photoelectric proximity sensor
Housing design (light emission)	Cylindrical, straight
Sensing range max.	0 mm 400 mm ¹⁾
Sensing range	5 mm 300 mm ¹⁾
Type of light	Visible red light
Light source	LED ²⁾
Wave length	650 nm
Adjustment	Single teach-in button

 $^{^{1)}}$ Object with 90% remission (based on standard white, DIN 5033).

Mechanics/electronics

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Supply voltage U _B	10 V DC 30 V DC
Ripple	± 10 %
Current consumption	30 mA ¹⁾
Switching output	PNP
Switching mode	Light switching
Response time	≤ 625 ms ²⁾
Connection type	Male connector M12, 4-pin
Housing material	Metal, Brass nickel-plated, plastic
Optics material	Plastic, PMMA
Enclosure rating	IP67
Ambient operating temperature	-15 °C +55 °C
Ambient temperature, storage	-25 °C +70 °C

¹⁾ Without load

 $^{^{2)}}$ Average service life: 100,000 h at TU = +25 °C.

²⁾ Signal transit time with resistive load.

UL File No.

NRKH.E181493, CDRH-conform (0312012-00)

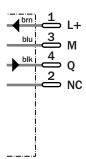
Classifications

eCl@ss 5.0	27270904
eCl@ss 5.1.4	27270904
eCl@ss 6.0	27270904
eCl@ss 6.2	27270904
eCl@ss 7.0	27270904
eCl@ss 8.0	27270904
eCl@ss 8.1	27270904
eCl@ss 9.0	27270904
eCl@ss 10.0	27270904
eCl@ss 11.0	27270904
ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719
ETIM 8.0	EC002719
UNSPSC 16.0901	39121528

Connection type



Connection diagram

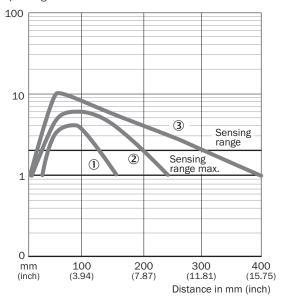


¹⁾ Without load.

²⁾ Signal transit time with resistive load.

Characteristic curve

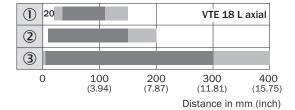
Operating reserve

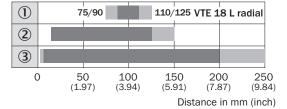


- ① Sensing range on black, 6% remission factor
- ② Sensing range on gray, 18% remission factor
- 3 Sensing range on white, 90% remission factor

Sensing range diagram

VTE18L

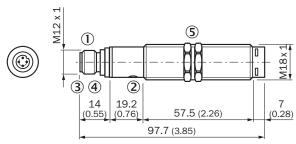




- Sensing range Sensing range max.
- ① Sensing range on black, 6% remission factor
- ② Sensing range on gray, 18% remission factor
- $\ensuremath{\mathfrak{G}}$ Sensing range on white, 90% remission factor

Dimensional drawing (Dimensions in mm (inch))

Axial



- ① M12 male device connector, 4-pin
- ② Sensitivity setting: single teach-in button
- ③ Green LED indicator: V_S Supply voltage feed
- ④ Yellow LED indicator:- lights continuously:Reception signal > reserve factor 2- blinks: Reception signal < reserve factor 2 but > switching threshold 1
- ⑤ Fastening nuts (2 x); width across 24, metal(included with delivery)

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SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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