



VTE18L-3F344

PRODUCT PORTFOLIO

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
VTE18L-3F344	6027595

Other models and accessories → www.sick.com/

Detailed technical data

Features

Sensor/ detection principle	Photoelectric proximity sensor
Housing design (light emission)	Cylindrical, straight
Sensing range max.	0 mm ... 250 mm ¹⁾
Sensing range	5 mm ... 200 mm ¹⁾
Type of light	Infrared light
Light source	Laser
Wave length	650 nm
Adjustment	Potentiometer Potentiometer

¹⁾ Object with 90 % reflectance (referred to standard white, DIN 5033).

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 10 %
Power 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 storage temperature	-25 °C ... +70 °C

¹⁾ Without load.

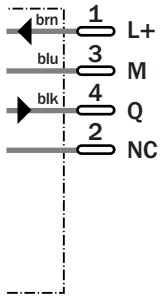
²⁾ Signal transit time with resistive load.

UL File No.

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

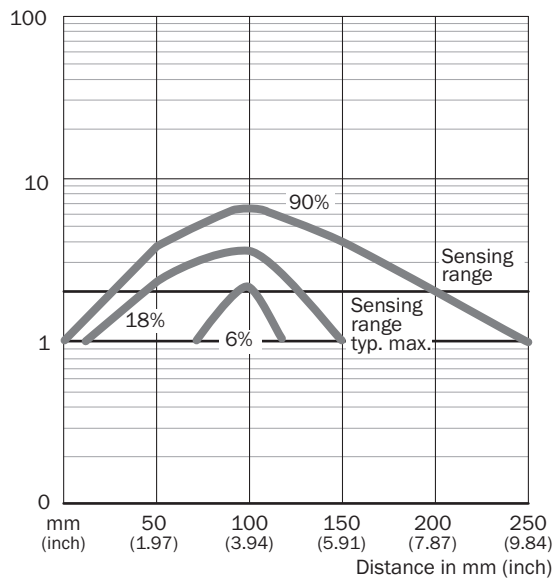
- 1) Without load.
- 2) Signal transit time with resistive load.

Connection diagram



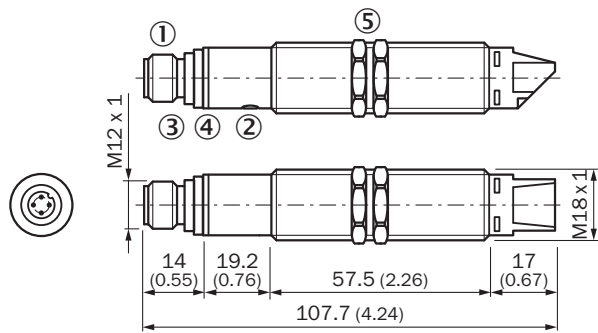
Characteristic curve

VTE18L, radial



Dimensional drawing (Dimensions in mm (inch))

Radial



- 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)

SICK AT A GLANCE

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.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com