



VT18-2T1112

V18

PRODUCT PORTFOLIO

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

| Type | Part no. |
|-------------|----------|
| VT18-2T1112 | 6011370 |

Other models and accessories → www.sick.com/V18

Detailed technical data

Features

| | |
|----------------------------------------|-------------------------------------------|
| Sensor/ detection principle | Photoelectric proximity sensor, energetic |
| Housing design (light emission) | Cylindrical |
| Housing length | 88 mm |
| Thread diameter (housing) | M18 x 1 |
| Optical axis | Axial |
| Sensing range max. | 2 mm ... 100 mm ¹⁾ |
| Sensing range | 3 mm ... 90 mm |
| Type of light | Infrared light |
| Light source | LED ²⁾ |
| Light spot size (distance) | Ø 12 mm (100 mm) |
| Angle of dispersion | Approx. 3.5° |
| Adjustment | None |

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

²⁾ Average service life: 100,000 h at T_J = +25 °C.

Mechanics/electronics

| | |
|--------------------------|------------------------------------|
| Supply voltage | 20 V AC ... 253 V AC ¹⁾ |
| Mains frequency | 50 Hz, 60 Hz |
| Power consumption | ≤ 30 mA ²⁾ |

¹⁾ Limit values.

²⁾ Without load.

³⁾ Depending on supply voltage VS.

⁴⁾ Signal transit time with resistive load.

⁵⁾ With light/dark ratio 1:1.

⁶⁾ Do not bend below 0 °C.

⁷⁾ C = interference suppression.

| | |
|----------------------------------------|----------------------------------|
| Switching output | TRIAC |
| Switching mode | Light switching |
| Output current I_{max.} | 300 mA ³⁾ |
| Response time | ≤ 20 ms ⁴⁾ |
| Switching frequency | 25 Hz ⁵⁾ |
| Connection type | Cable, 3-wire, 2 m ⁶⁾ |
| Cable material | PVC |
| Conductor cross-section | 0.34 mm ² |
| Cable diameter | Ø 4.7 mm |
| Circuit protection | C ⁷⁾ |
| Protection class | III |
| Weight | 95 g |
| Housing material | Plastic, PBT/PC |
| Optics material | Plastic, PMMA |
| Enclosure rating | IP67 |
| Ambient operating temperature | -25 °C ... +70 °C |
| UL File No. | NMFT2.E175606 |

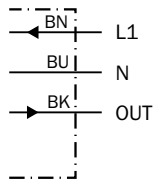
- 1) Limit values.
- 2) Without load.
- 3) Depending on supply voltage VS.
- 4) Signal transit time with resistive load.
- 5) With light/dark ratio 1:1.
- 6) Do not bend below 0 °C.
- 7) C = interference suppression.

Classifications

| | |
|-----------------------|----------|
| ECI@ss 5.0 | 27270904 |
| ECI@ss 5.1.4 | 27270904 |
| ECI@ss 6.0 | 27270904 |
| ECI@ss 6.2 | 27270904 |
| ECI@ss 7.0 | 27270904 |
| ECI@ss 8.0 | 27270904 |
| ECI@ss 8.1 | 27270904 |
| ECI@ss 9.0 | 27270904 |
| ETIM 5.0 | EC002719 |
| ETIM 6.0 | EC002719 |
| UNSPSC 16.0901 | 39121528 |

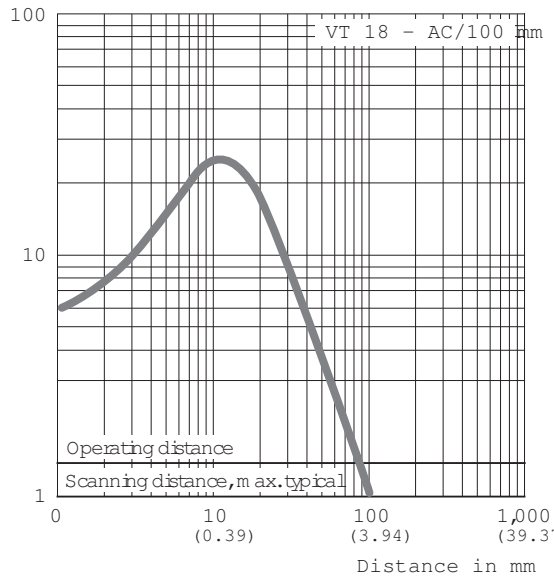
Connection diagram

cd-063

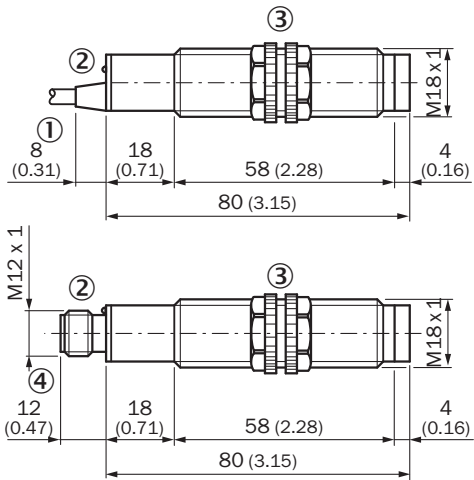


Characteristic curve

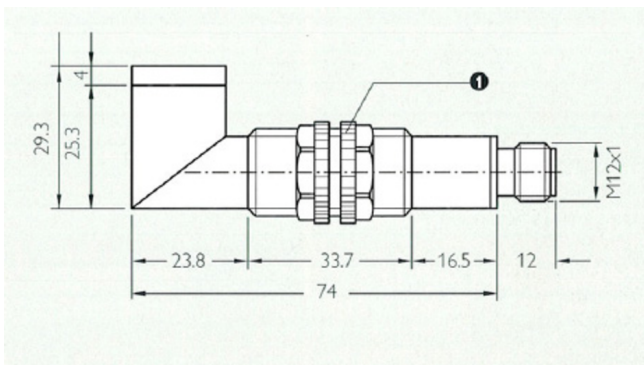
Función reserve



Dimensional drawing (Dimensions in mm (inch))



- ① Connection cable
- ② LED signal strength indicator
- ③ Fastening nuts, 22 mm hex (included)
- ④ Connector M12, 4- pin



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