



VT18-2T1112

V18

CYLINDRICAL PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.

VT18-2T1112 | V18

CYLINDRICAL PHOTOELECTRIC SENSORS



Ordering information

Type	Part no.
VT18-2T1112	6011370



Illustration may differ



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_U = +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.

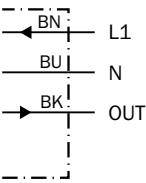
7) C = interference suppression.

Classifications

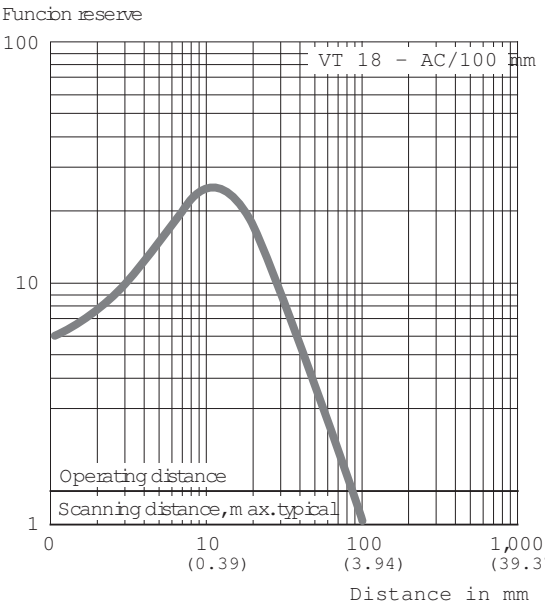
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ECI@ss 5.1.4	27270904
ECI@ss 6.0	27270904
ECI@ss 6.2	27270904
ECI@ss 7.0	27270904
ECI@ss 8.0	27270904
ECI@ss 8.1	27270904
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ETIM 5.0	EC002719
ETIM 6.0	EC002719
UNSPSC 16.0901	39121528

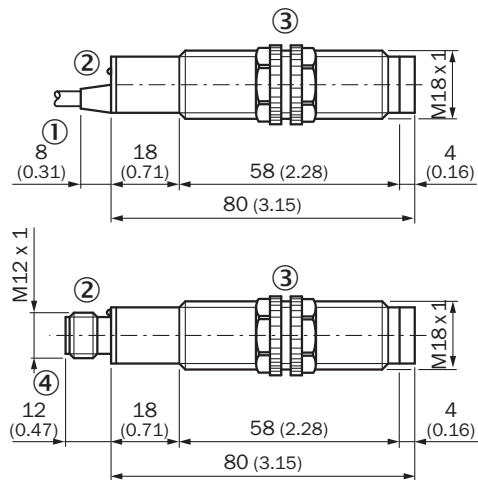
Connection diagram

Cd-063

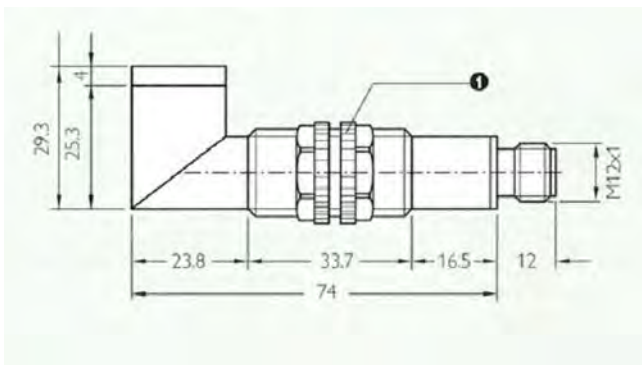


Characteristic curve



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."

SICK
Sensor Intelligence.