

SICK.COM



DATA SHEET

VT18-2T1410

V18
Photoelectric sensors

SICK Sensor Intelligence



Illustration may differ

PHOTOELECTRIC SENSORS

VT18-2T1410

ORDERING INFORMATION

Type	part no.
VT18-2T1410	6011373

Further device versions and accessories at www.sick.com/V18



DETAILED TECHNICAL DATA

FEATURES

Functional principle	Photoelectric proximity sensor
Functional principle detail	Energetic
Dimensions (W x H x D)	18 mm x 18 mm x 92 mm
Housing design (light emission)	Cylindrical
Housing length	92 mm
Thread diameter (housing)	M18 x 1
Optical axis	Axial
Sensing range max.	2 mm ... 100 mm ¹⁾
Sensing range	3 mm ... 90 mm
Focus	Approx. 3.5°
Type of light	Infrared light
Light source	LED ²⁾
Light spot size (distance)	Ø 12 mm (130 mm)
Angle of dispersion	Approx. 3.5°
Adjustment	None

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

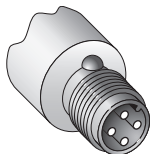
²⁾ Average service life: 100,000 h at T_u = +25 °C.

MECHANICS/ELECTRONICS

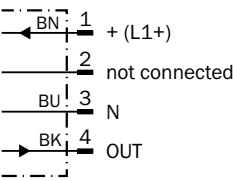
Supply voltage U_B	20 V AC ... 253 V AC ¹⁾
Mains frequency	50 Hz, 60 Hz
Current consumption	30 mA ²⁾
Switching output	TRIAC
Switching mode	Light switching
Output current I_{max}	≤ 300 mA ³⁾
Response time	≤ 20 ms ⁴⁾
Switching frequency	25 Hz ⁵⁾
Connection type	Male connector M12, 4-pin
Circuit protection	C ⁶⁾
Protection class	II
Weight	30 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 V_S .⁴⁾ Signal transit time with resistive load.⁵⁾ With light/dark ratio 1:1.⁶⁾ C = interference suppression.**CERTIFICATES**

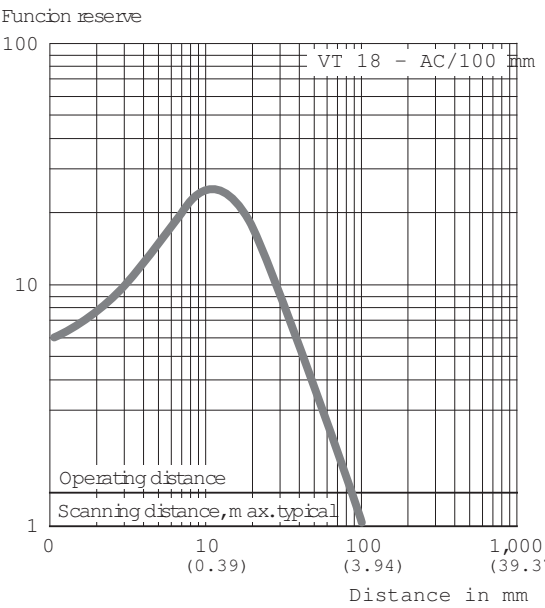
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
China Compulsory Product Certification (CCC) exempt	✓
cRUus certificate	✓

CONNECTION TYPE

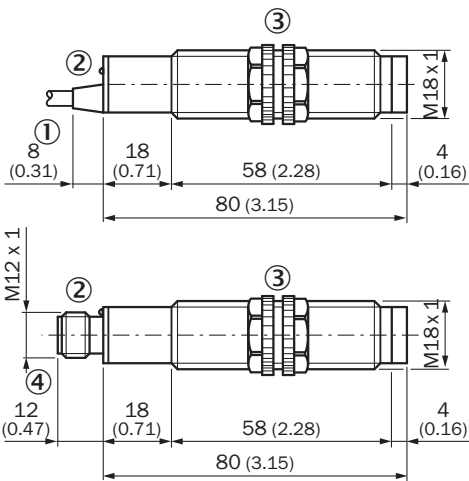
CONNECTION DIAGRAM CD-129



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

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6011373



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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