

SICK.COM



DATA SHEET

VL18-2T2132

V18
Photoelectric sensors

SICK Sensor Intelligence



Illustration may differ

PHOTOELECTRIC SENSORS

VL18-2T2132

ORDERING INFORMATION

Type	part no.
VL18-2T2132	6011376

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



DETAILED TECHNICAL DATA

FEATURES

Functional principle	Photoelectric retro-reflective sensor
Dimensions (W x H x D)	18 mm x 18 mm x 88 mm
Housing design (light emission)	Cylindrical
Housing length	88 mm
Thread diameter (housing)	M18 x 1
Optical axis	Axial
Sensing range max.	0.005 m ... 5 m ¹⁾
Sensing range	0.01 m ... 4 m ¹⁾
Focus	6°
Type of light	Infrared light
Light source	LED ²⁾
Light spot size (distance)	Ø 30 mm (3 m)
Angle of dispersion	6°
Adjustment	None

¹⁾ Reflector C110A.

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

MECHANICS/ELECTRONICS

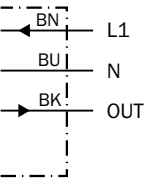
Supply voltage U_B	20 V AC ... 253 V AC ¹⁾
Mains frequency	50 Hz, 60 Hz
Current consumption	30 mA ²⁾
Switching output	TRIAC
Switching mode	Dark switching
Output current I_{max}	≤ 300 mA ³⁾
Response time	≤ 20 ms ⁴⁾
Switching frequency	25 Hz ⁵⁾
Connection type	Cable, 3-wire, 2 m ⁶⁾
Cable material	Plastic, PVC
Conductor cross section	0.34 mm ²
Cable diameter	Ø 4.7 mm
Circuit protection	C ⁷⁾
Protection class	II
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.**CERTIFICATES**

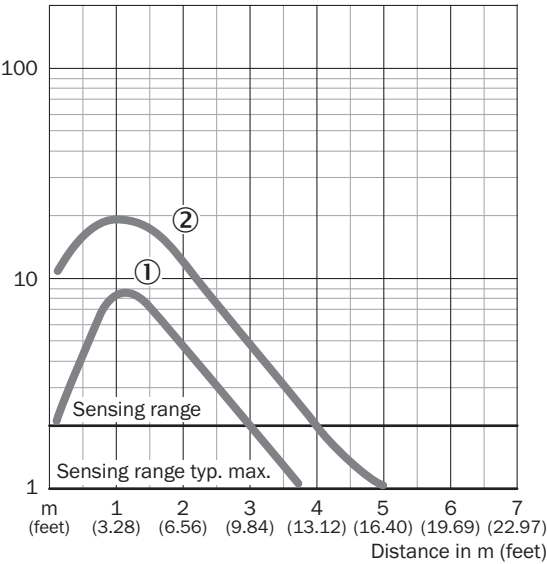
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
China Compulsory Product Certification (CCC) exempt	✓
cRUus certificate	✓

CONNECTION TYPE

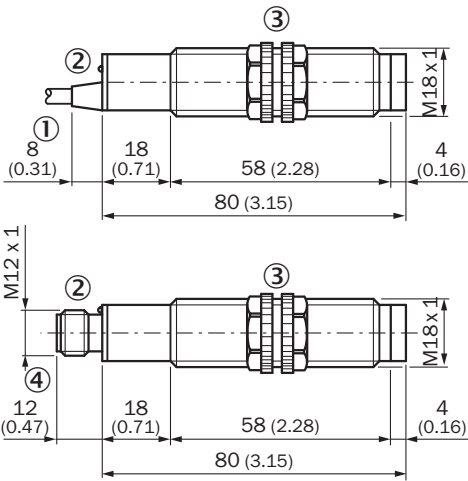
CONNECTION DIAGRAM CD-063



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

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/6011376



SICK AG
WALDKIRCH
GERMANY
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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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