



Photoelectric sensors V18, Photoelectric retro-reflective sensor

VL18-2T1162



Model Name > [VL18-2T1162](#)
Part No. > [6022092](#)



Illustration may differ

At a glance

- Standard photoelectric sensor family in M18 cylindrical housing
- Scanning distance up to 5 m
- Voltage supply of 20 to 253 V AC with TRIAC output.

Your benefits

- Simple, standardized design ensures easy mounting, alignment and replacement
- For connection to alternating voltage
- Polarizing filter prevents false readings on reflective surfaces, reducing downtime



Features

Sensor/detection principle:	Photoelectric retro-reflective sensor
Housing design (light emission):	Cylindrical, straight, straight
Housing length:	88 mm
Thread diameter (housing):	M18 x 1
Optical axis:	Axial
Sensing range max.:	0.005 m ... 3.5 m ¹⁾
Sensing range:	0.01 m ... 3 m ²⁾
Type of light:	Visible red light
Light source:	LED ³⁾
Light spot diameter (distance):	Ø 30 mm (3 m)
Angle of dispersion:	6 °

^{1) 2)} C110A ³⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanics/electronics

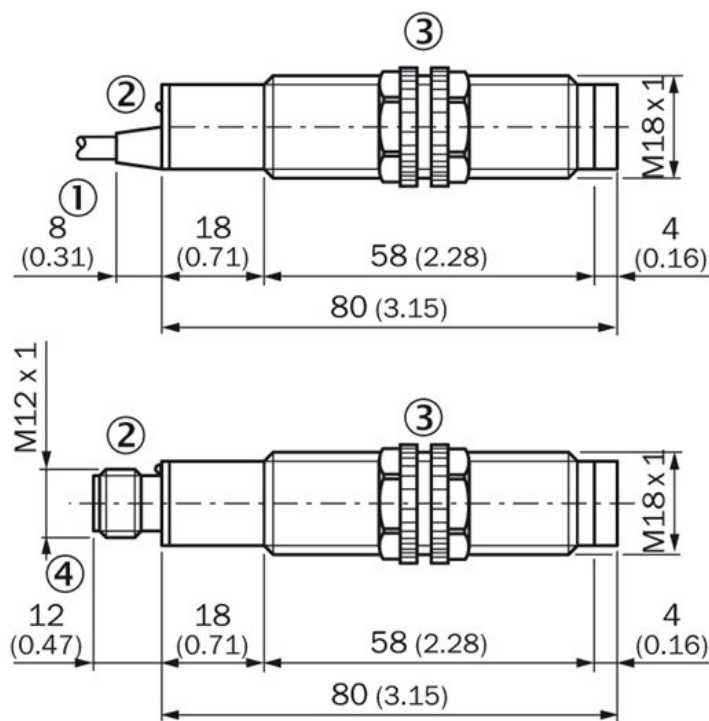
Supply voltage:	20 V AC ... 253 V AC ¹⁾
Mains frequency:	50 Hz, 60 Hz
Power consumption:	≤ 30 mA ²⁾
Output type:	TRIAC, Light-switching
Output current I _{max} :	300 mA ³⁾
Response time:	≤ 20 ms ⁴⁾
Switching frequency:	25 Hz ⁵⁾
Connection type:	Cable, 3-wire, 2 m ⁶⁾
Cable material:	PVC
Conductor cross-section:	0.34 mm ²
Cable diameter:	4.7 mm

Circuit protection:	C ⁷⁾
Protection class:	III
Weight:	95 g
Polarisation filter:	✓
Housing material:	PBT/PC
Optics material:	PMMA
Enclosure rating:	IP 67
Ambient operating temperature:	-25 °C ... 60 °C
UL File-No.:	UL 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

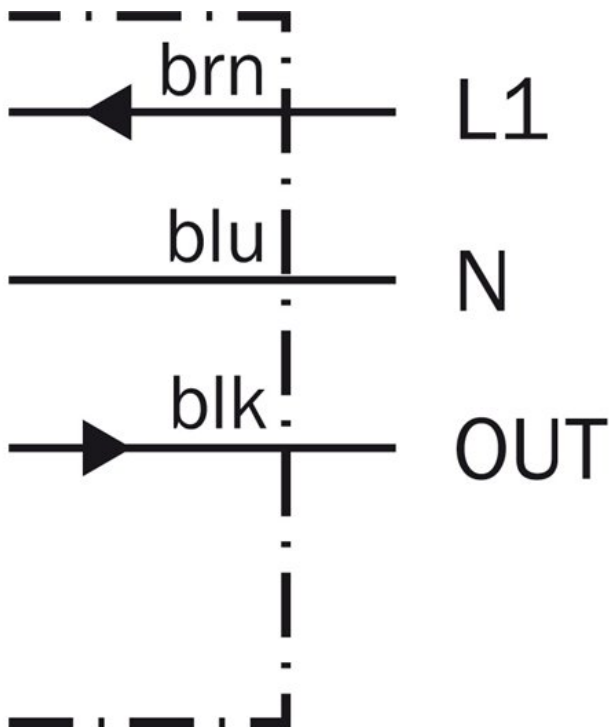
= interference suppression

Dimensional drawing

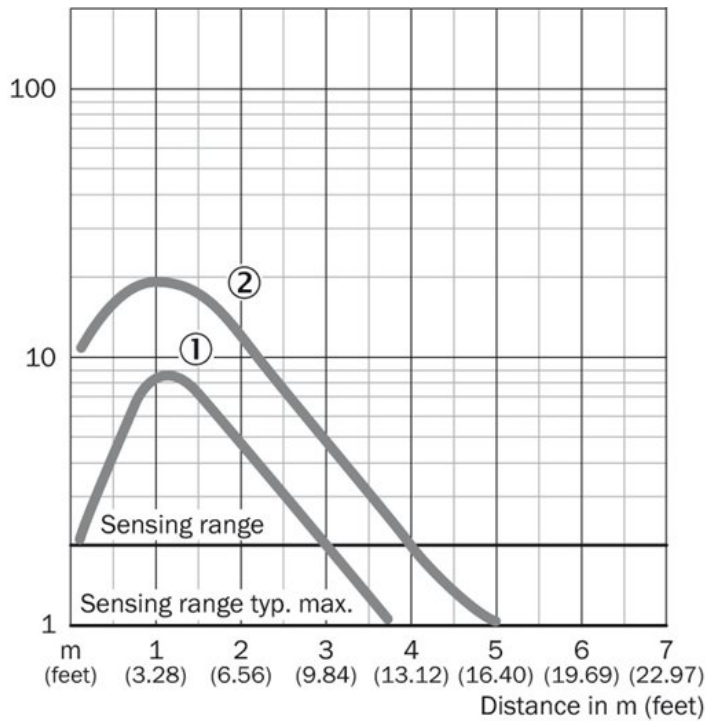


- [1] Connection cable
- [2] LED signal strength indicator
- [3] Fastening nuts, 22 mm hex (included)
- [4] Connector M12, 4- pin

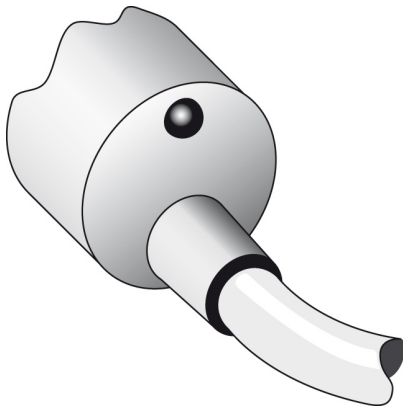
Connection diagram



Characteristic curve



Connection type



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