



Photoelectric sensors

VT18-2T2430



Model Name > [VT18-2T2430](#)

Part No. > [6022097](#)



Illustration may differ

At a glance

- Cylindrical M18 housing
- Three adjustable sensing distances of 100 mm, 200 mm or 400 mm
- 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



Features

Sensor/detection principle:	Photoelectric proximity sensor, energetic
Housing design (light emission):	straight
Housing length:	92 mm
Thread diameter (housing):	M18 x 1
Optical axis:	Axial
Sensing range max.:	2 mm ... 200 mm ¹⁾
Sensing range:	3 mm ... 180 mm
Type of light:	Infrared light
Light source:	LED ²⁾
Light spot (distance):	24 mm (200 mm)
Angle of dispersion:	3.5 °
Adjustment:	no/fix

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033) ²⁾ Average service life of 100,000 h at $T_A = +25\text{ °C}$

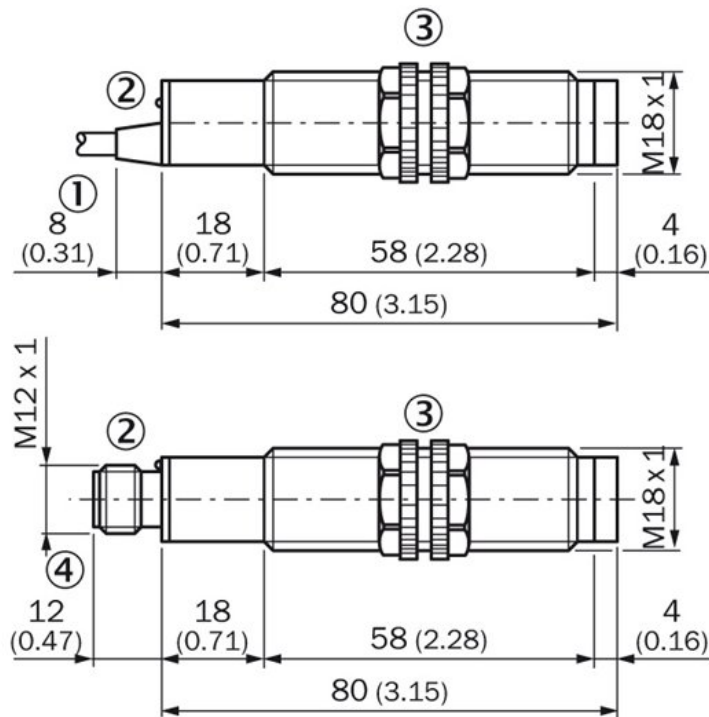
Mechanics/electronics

Supply voltage:	20 V AC ... 253 V AC ¹⁾
Mains frequency:	50 Hz 60 Hz
Power consumption:	$\leq 30\text{ mA}$ ²⁾
Output type:	TRIAC, Dark-switching
Output current $I_{max.}$:	300 mA ³⁾
Response time:	$\leq 20\text{ ms}$ ⁴⁾
Switching frequency:	25 Hz with light/dark ratio 1:1 ⁵⁾
Connection type:	Connector M12, 4-pin

Circuit protection:	C
	6)
Protection class:	III
Weight:	30 g
Housing material:	PBT/PC
Optics material:	PMMA
Enclosure rating:	IP 67
Ambient operating temperature:	-25 °C ... 70 °C

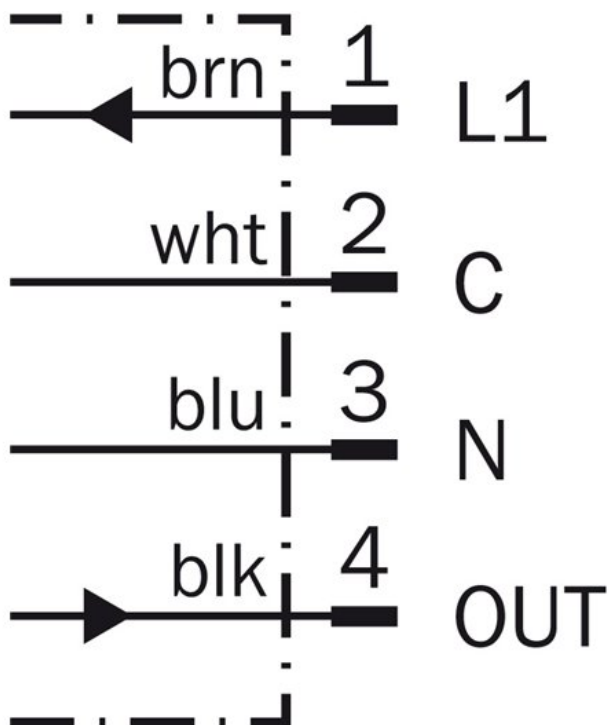
1) Limit values 2) Without load 3) Depending on supply voltage VS 4) Signal transit time with resistive load 5) With light/dark ratio 1:1 6) C = interference suppression

Dimensional drawing

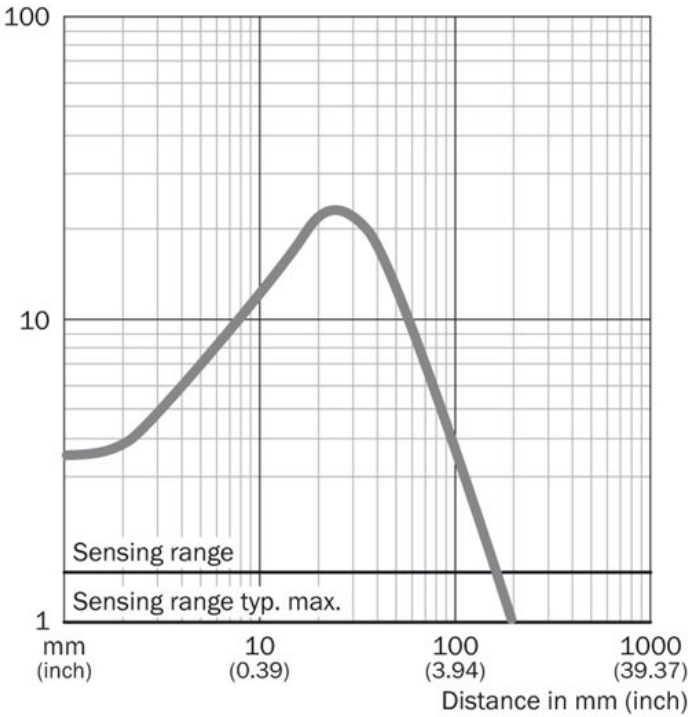


- [1] Connection cable
- [2] LED signal strength indicator
- [3] Fastening nuts, 22 mm hex (included)
- [4] Connector M12, 4- pin

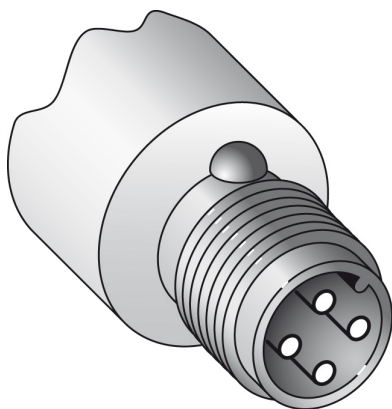
Connection diagram



Characteristic curve



Connection type



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