



VS/VE18-2T2430 V18

CYLINDRICAL PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
VS/VE18-2T2430	6011381

Other models and accessories → www.sick.com/V18

Illustration may differ



Detailed technical data

Features

Functional principle	Through-beam photoelectric sensor
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.	0 m 22 m
Sensing range	0 m 16 m
Focus	2.9°
Type of light	Infrared light
Light source	LED ¹⁾
Light spot size (distance)	Ø 800 mm (16 m)
Angle of dispersion	2.9°
Adjustment	None

 $^{^{1)}}$ 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	45 mA ²⁾
Switching output	TRIAC
Switching mode	Dark switching
Output current I _{max.}	\leq 300 mA $^{3)}$

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.

Response time	≤ 20 ms ⁴⁾
Switching frequency	25 Hz ⁵⁾
Connection type	Male connector M12, 4-pin
Circuit protection	C 6)
Protection class	III
Weight	60 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.

Classifications

ECLASS 5.0	27270901
ECLASS 5.1.4	27270901
ECLASS 6.0	27270901
ECLASS 6.2	27270901
ECLASS 7.0	27270901
ECLASS 8.0	27270901
ECLASS 8.1	27270901
ECLASS 9.0	27270901
ECLASS 10.0	27270901
ECLASS 11.0	27270901
ECLASS 12.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716
ETIM 7.0	EC002716
ETIM 8.0	EC002716
UNSPSC 16.0901	39121528

Connection type



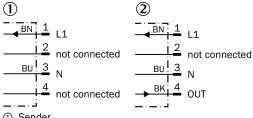
²⁾ Without load.

³⁾ Depending on supply voltage VS.
4) Signal transit time with resistive load.
5) With light/dark ratio 1:1.

⁶⁾ C = interference suppression.

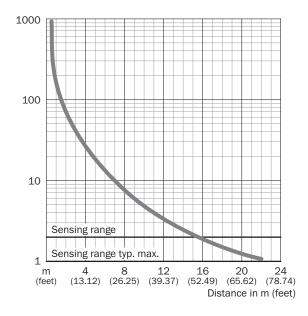
Connection diagram

Cd-223

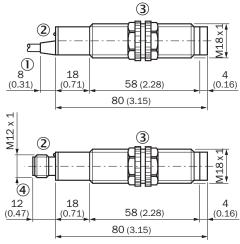


- ① Sender
- ② Receiver

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

Recommended accessories

Other models and accessories → www.sick.com/V18

	Brief description	Туре	Part no.	
Mounting brackets and plates				
40	Mounting bracket for M18 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M18	5308446	
Others				
	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14- 050VB3XLEAX	2096235	
	• Connection type head A: Male connector, M12, 4-pin, straight, A-coded • Description: Unshielded • Connection systems: Screw-type terminals • Permitted cross-section: ≤ 0.75 mm²	STE-1204-G	6009932	

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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."

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