











Model Number

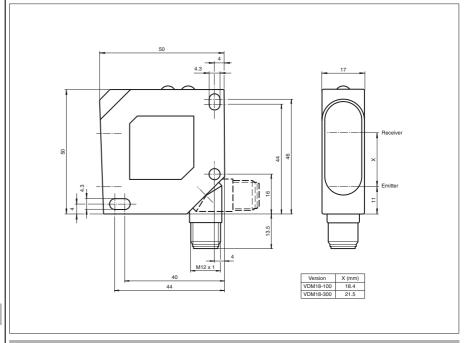
VDM18-100/32/105/122

Distance sensor with 5-pin, M12 x 1 connector

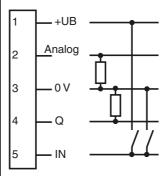
Features

- Analog output 4 mA ... 20 mA
- High resolution
- Very fast response characteristic, suitable for rapid scanning process

Dimensions



Electrical connection



Pinout



Technical data		
General specifications		
Measurement range		30 100 mm
Light source		laser diode
Limba b		typ. service life 50,000 h at Ta = +40 °C
Light type		modulated visible red light
Laser nominal ratings		LACED LICHT DO NOT STADE INTO DEAM
Note Laser class		LASER LIGHT , DO NOT STARE INTO BEAM 2
Wave length		650 nm
Light spot representation		approx. 1.5 mm x 3.25 mm at 100 mm
Approvals		CE. cULus
Measuring method		Laser triangulation
Linearity error		0.25 % of the measuring range
Ambient light limit		≤ 5000 Lux
Resolution		< 0.1 % of the measuring range
Temperature influence		< 0.02% /°C
Indicators/operating means		
Operating display		LED green
Function display		2 yellow LEDs: Switching status (each output) , 4 green LEDs Operating mode
Controls		Control panel: Adjuster for switch point, Operating mode, A log output (S - Set, T - Toggle)
Parameterization display		LED red
Electrical specifications		
Operating voltage	U_{B}	18 30 V DC
No-load supply current	I ₀	≤ 40 mA at 24 V DC
Protection class	-0	II , rated voltage ≤ 50 V DC
Time delay before availability	t _v	≤ 300 ms
Input	•	
Control input		Laser off (HIGH +UB) , Keypad lock (LOW 0 V)
Output		, , . , . , . , . , . , . ,
Signal output		1 PNP output, short-circuit protected, reverse polarity protect open collector
Switching current		max. 100 mA
Measurement output		1 analog output 4 20 mA, short-circuit/overload protected s
Switching frequency	f	≤ 1 kHz
Response time		0.4 ms
Ambient conditions		
Ambient temperature		-10 60 °C (14 140 °F)
Storage temperature		-20 80 °C (-4 176 °F)
Mechanical specifications		
Protection degree		IP67
Connection		5-pin, M12 x 1 plastic connector
Material		
Housing		ABS , impact resistant
Optical face		РММА
Mass		approx. 43 g
Compliance with standards an ves	d direct	i-
Directive conformity		
EMC Directive 2004/108/EC Standard conformity		EN 60947-5-2

Accessories

OMH-VDM18-01

Mounting accessory, distance measuring devices Series VDM18

OMH-VDM18-02

Mounting accessory, distance measuring devices Series VDM18

Other suitable accessories can be found at www.pepperl-fuchs.com

EPPERL+FUCHS

Laser class

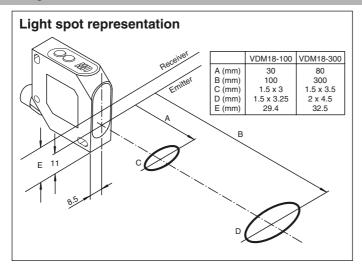
UL approval

Approvals and certificates

IEC 60825-1:2001

cULus Listed

Curves/Diagrams



Laser notice laser class 2

- The irradiation can lead to irritation especially in a dark environment. Do not point at people!
- · Caution: Do not look into the beam!
- Maintenance and repairs should only be carried out by authorized service personnel!
- Attach the device so that the warning is clearly visible and readable.
- Caution Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.