



Properties

- Rectangular compact housing
- Diffuse distance measurement
- Triangulation method
- Short range
- Analog output
- Laser red light

Technical Data

For detailed data and product description refer to the data sheets at www.pepperl-fuchs.com

General Data

Light source	laser diode typ. service life 50,000 h at Ta = +40 °C
Light type	modulated visible red light
Laser class	2
Wave length	650 nm
Measuring method	Laser triangulation
Linearity error	0.25 % of the measuring range
Resolution	< 0.1 % of the measuring range
Operating voltage	18 ... 30 V DC
No-load supply current	≤ 40 mA at 24 V DC
Switching current	max. 100 mA
Switching frequency	≤ 1 kHz
Measurement output	1 analog output 4 ... 20 mA, short-circuit/overload protected , Rmax = 500 Ohm
Ambient temperature	-10 ... 60 °C (14 ... 140 °F)
Material	
Housing	ABS , impact resistant
Optical face	PMMA
Protection degree	IP67

Model Number

	green = preferred type	VDM18-100/20/122/151	VDM18-100/20/88/122/151	VDM18-100/32/105/122	VDM18-300/20/122/151	VDM18-300/20/88/122/151	VDM18-300/32/105/122
Measurement range	30 ... 100 mm 80 ... 300 mm	●	●	●	●	●	●
Light spot representation	approx. 1.5 mm x 3 mm at 100 mm approx. 1.5 mm x 3.25 mm at 100 mm approx. 2 mm x 4.5 mm at 300 mm	●	●	●	●	●	●
Interface type	RS 485		●		●	●	●
Control input	Laser off (HIGH +UB) , Keypad lock (LOW 0 V)		●		●	●	●
Signal output	1 PNP output, short-circuit protected, reverse polarity protected, open collector 2 PNP outputs, independent , short-circuit protected, reverse polarity protected	●	●	●	●	●	●
Connection	5-pin, M12 x 1 plastic connector M12 connector, 8-pin	●	●	●	●	●	●



Approvals and Certificates

UL approval	cULus Listed	●	●	●	●	●	●
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Dimensions

Length L [mm]	50
Width W [mm]	17
Height H [mm]	46
Connector area l _c [mm]	13,5 / 0

Accessories

This and more accessories can be found in chapter 10

See pages from 972 ... for cordsets

See pages 1068 ... for mounting aids

OMH-VDM18-01

Mounting accessory, distance measuring devices Series VDM18

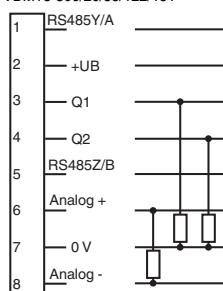
OMH-VDM18-02

Mounting accessory, distance measuring devices Series VDM18

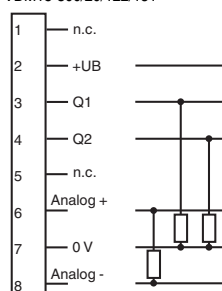
Electrical Connection



VDM18-100/20/88/122/151
VDM18-300/20/88/122/151



VDM18-100/20/122/151
VDM18-300/20/122/151



VDM18-100/32/105/122
VDM18-300/32/105/122

