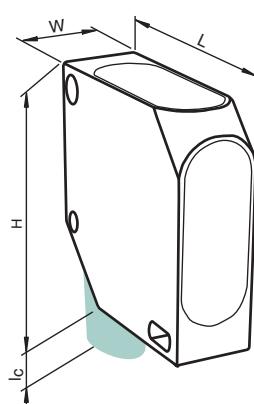


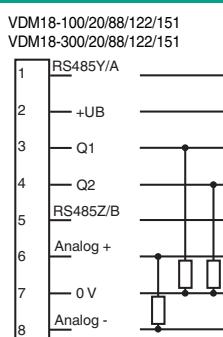
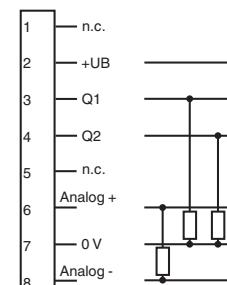
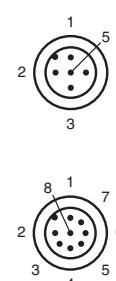
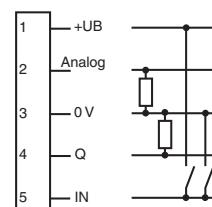


Properties

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

5
2

Electrical Connection

VDM18-100/20/122/151
VDM18-300/20/122/151VDM18-100/32/105/122
VDM18-300/32/105/122

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 $T_a = +40^\circ\text{C}$
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	$\leq 40 \text{ mA}$ at 24 V DC
Switching current	max. 100 mA
Switching frequency	$\leq 1 \text{ kHz}$
Measurement output	1 analog output 4 ... 20 mA, short-circuit/overload protected, $R_{max} = 500 \text{ Ohm}$
Ambient temperature	-10 ... 60 °C (14 ... 140 °F)
Material	ABS, impact resistant
Housing	PMMA
Optical face	IP67

Model Number

Measurement range	green = preferred type 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

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

Approvals and Certificates

UL approval	cULus Listed
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