Distance sensor

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Model Number

VDM35-6-L/20/115b/122

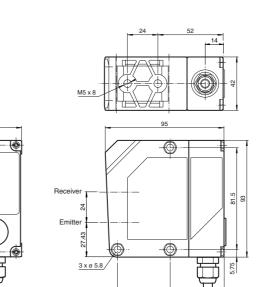
Distance sensor

with 0.2 m fixed cable and M12 connector, 5pin

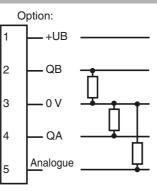
Features

- Can be aligned using an integrated pi-٠ lot laser
- Adjustable switch outputs •
- Not sensitive to ambient light •
- Analog output 4 mA ... 20 mA •

Dimensions



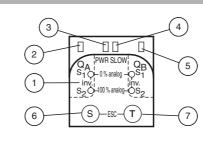
Electrical connection



Pinout



Indicators/operating means



1	LED Menue red	
2	LED QA	yellow
3	LED Fast	orange
4	LED Power green	
5	LED QB yellow	
6	Button Set	
7	Button Toggle	

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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Accessories OMH-VDM35 Mounting bracket OMH-VDM35-01

VDM35-AR

www.pepperl-fuchs.com

ries

Adjustment set series VDM35

Alignment aid for VDM35 and VDM70 se-

Other suitable accessories can be found at

Reneral specifications			
Measurement range		0.2 6 m	
Reference target		Kodak white (90%)	
Light source		laser diode	
Light type		modulated visible red light modulated infrared light	
Laser nominal ratings			
Note		VISIBLE AND INVISIBLE LASER RADIATION , DO NOT STARI INTO BEAM	
Laser class		Measurement laser: 1 Alignment laser: 2	
Wave length		Measurement laser: 905 nm Alignment laser: 650 nm	
Beam divergence		Measurement laser: 2 mrad Alignment laser: 1 mrad	
Pulse length		Measurement laser: 6 ns Alignment laser: 0.25 µs	
Repetition rate		Measurement laser: 40 kHz Alignment laser: 1 kHz	
Maximum optical power output		Measurement laser: 1.8 W Alignment laser: 3 mW	
Measuring method		Time of flight measurement	
Diameter of the light spot		4 mm x 12 mm at a distance of 6 m	
Ambient light limit		5000 Lux	
Temperature influence		typ. ≤ 1.2 mm/K	
Indicators/operating means		LED groop	
Operation indicator		LED green	
Function indicator Control elements		LED yellow: switching state (2x) , LED orange : Operating mod Control panel : Adjuster for switch point , Operating mode , Ana log output (S - Set , T - Toggle)	
Parameterization indicator		LED red (4x)	
Electrical specifications			
Operating voltage	UB	18 30 V DC , class 2	
Ripple		10 % within the supply tolerance	
No-load supply current	I ₀	≤ 125 mA / 24 V DC	
Time delay before availability	t _v	≤ 300 ms	
Output			
Switching type		light/dark on, switchable	
Signal output		2 PNP, short-circuit protected	
Switching current		max. 100 mA	
Measurement output		1 analog output 4 20 mA, short-circuit/overload protected , Rmax = 500 Ohm	
Voltage drop	U _d	≤2.4 V	
Deviation of the characteristic curve		typ. $\leq \pm 40 \text{ mm}$	
Switching frequency	f	Fast: 40 Hz / Slow: 16 Hz	
Response time	5	Fast: 13 ms / Slow: 80 ms	
Repeat accuracy	R	Fast: $\leq \pm 15 \text{ mm} / \text{Slow}$: $\leq \pm 10 \text{ mm}$	
Ambient conditions			
Ambient temperature		-20 50 °C (-4 122 °F)	
Storage temperature		-40 80 °C (-40 176 °F)	
Mechanical specifications		1007	
Protection degree			
Connection		fixed cable 200 mm with M12 connector, 5 pin	
Material		480	
Housing		ABS	
Optical face		PMMA	
Mass Compliance with standards and ves	directi-	200 g	
Directive conformity			
EMC Directive 2004/108/EC		EN 60947-5-2	
Standard conformity			
Laser class		IEC 60825-1:2001	
Approvals and certificates			
Approvato ana contineateo			

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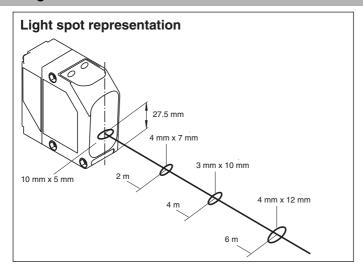
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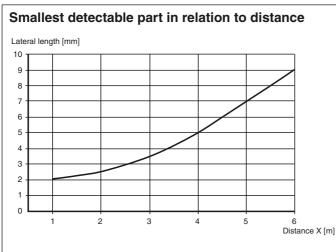
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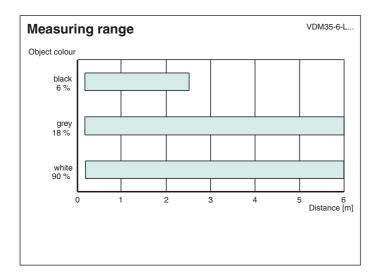
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Curves/Diagrams







Release date: 2013-10-11 12:04 Date of issue: 2013-10-11 207894_eng.xml

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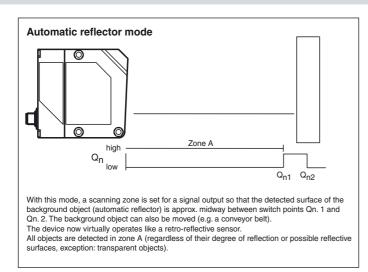
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