









Model Number

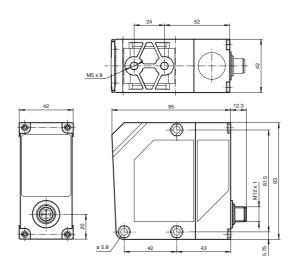
VDM35-6-L/20/105/122

Distance sensor with 5-pin, M12 x 1 connector

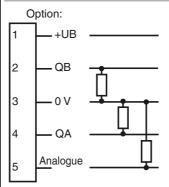
Features

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

Dimensions



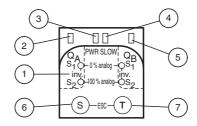
Electrical connection



Pinout



Indicators/operating means



fa-info@sg.pepperl-fuchs.com

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

1

Technical data General specifications Measurement range 0.2 ... 6 m Kodak white (90%) Reference target Light source laser diode modulated visible red light Light type modulated infrared light Laser nominal ratings VISIBLE AND INVISIBLE LASER RADIATION, DO NOT STARE 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 Time of flight measurement Measuring method Diameter of the light spot 4 mm x 12 mm at a distance of 6 m Ambient light limit 5000 Lux typ. ≤ 1.2 mm/K Temperature influence Indicators/operating means Operation indicator LED green Function indicator LED yellow: switching state (2x), LED orange: Operating mode Control elements Control panel: Adjuster for switch point, Operating mode, Analog output (S - Set, T - Toggle) Parameterization indicator LED red (4x) **Electrical specifications** Operating voltage 18 ... 30 V DC, class 2 U_{B} Ripple 10 % within the supply tolerance No-load supply current ≤ 125 mA / 24 V DC I۵ Time delay before availability < 300 ms Output Switching type light/dark on, switchable Signal output 2 PNP, short-circuit protected Switching current 1 analog output 4 ... 20 mA, short-circuit/overload protected, Measurement output Rmax = 500 OhmVoltage drop U_d < 2.4 V typ. $\leq \pm 40 \text{ mm}$ Deviation of the characteristic curve Switching frequency Fast: 40 Hz / Slow: 16 Hz Response time Fast: 13 ms / Slow: 80 ms R Fast: ≤ ± 15 mm / Slow: ≤ ± 10 mm Repeat accuracy **Ambient conditions** Ambient temperature -20 ... 50 °C (-4 ... 122 °F) Storage temperature -40 ... 80 °C (-40 ... 176 °F) Mechanical specifications Degree of protection IP67 Connection 5-pin, M12 x 1 connector Material Housing ABS Optical face PMMA Mass 200 g Compliance with standards and directi-Directive conformity EMC Directive 2004/108/EC EN 60947-5-2 Standard conformity Laser class IEC 60825-1:2007

Laserlabel



DO NOT STARE INTO BEAM LASER PRODUCT ring LASER class 1 Pilot LASER class 2

Accessories

OMH-VDM35

Mounting bracket

OMH-VDM35-01

Adjustment set series VDM35

VDM35-AR

Alignment aid for VDM35 and VDM70 se-

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

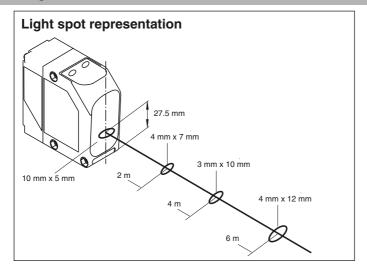
PEPPERL+FUCHS

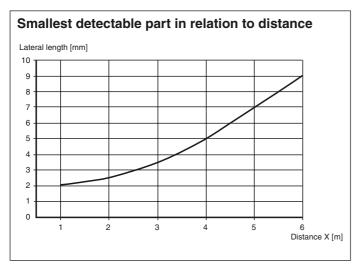
Approvals and certificates

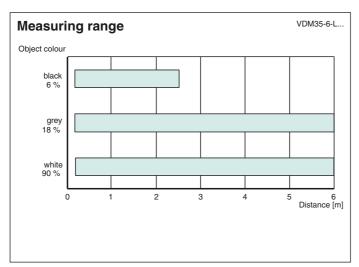
Approvals

CE, cULus

Curves/Diagrams







With this mode, a scanning zone is set for a signal output so that the detected surface of the background object (automatic reflector) is approx. midway between switch points Qn. 1 and Qn. 2. The background object can also be moved (e.g. a conveyor belt). The device now virtually operates like a retro-reflective sensor. All objects are detected in zone A (regardless of their degree of reflection or possible reflective surfaces, exception: transparent objects).