



Long range distance sensors  
Product group DME2000, Distance sensor,  
reflector mode, Distance sensor, proximity mode

DME2000-000



**Model Name** > **DME2000-000**  
**Part No.** > **1010578**



**Product features**

Light source:	Laser diode
Type of light:	Laser, red light
Laser protection class:	2 (IEC 60825-1/EN 60825-1)
Technology:	Distance sensor, reflector mode, Distance sensor, proximity mode
Distance from ... to:	0.1 m ... 130 m, 100 mm ... 2,047 mm
Sensing range min ... max (reflector mode):	0.1 m ... 130 m
Sensing range min ... max (proximity mode):	100 mm ... 2,047 mm

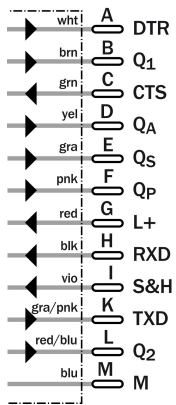
**Technical data**

Dimensions (W x H x D):	54 mm x 105 mm x 138 mm
Supply voltage min ... max:	DC 18 ... 30 V
Data interface:	RS-232
Light spot diameter:	Reflector mode: Approx. 250 mm / 130 m, Proximity mode: Approx. 3 mm / 2 m
Ripple:	< 5 Vpp
Output current:	≤ 100 mA
Switching outputs:	PNP, Q1, Q2, Qp, Qs
Accuracy of sensor element:	+/- 11 mm (>18% remission), +/- 5 mm (=90% remission), +/- 65 mm (6% remission), Proximity mode:
Repeatability:	+ 5/- 20 mm, 1 mm (=90% remission), 25 mm (6% remission), 3 mm (>18% remission), Reflector mode:, Proximity mode:
Measured value output:	Reflector mode: 100 ms, Proximity mode: 29 ms
Connection type:	connector, M16, 12-pin
Enclosure rating:	IP 65
Reverse polarity protection:	1
Short-circuit protected::	1
Overload protected:	1
Ambient operation temperature, min ... max:	-10 °C ... +45 °C
Ambient storage temperature, min ... max:	-25 °C ... +75 °C
Series:	DME2000
Power consumption:	< 6 W
Analogue output:	0
Analogue output min ... max:	0 mA ... 20 mA
Remark, analogue output:	or 4 ... 20 mA
Resolution:	Reflector mode: 1 mm, Proximity mode: 1 mm



## Connection diagram

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