DME4000
Standard sensor for measurement distances up to 220 m

LONG RANGE DISTANCE SENSORS
DME4000
LONG RANGE DISTANCE SENSORS

Technical data overview

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>0.15 m ... 220 m, on reflective tape &quot;Diamond Grade&quot; (depending on type)</td>
</tr>
<tr>
<td>Repeatability</td>
<td>1 mm, 2 mm, 3 mm</td>
</tr>
<tr>
<td>Accuracy</td>
<td>± 3 mm, ± 5 mm, ± 6 mm</td>
</tr>
<tr>
<td>Target</td>
<td>Reflector</td>
</tr>
<tr>
<td>SSI</td>
<td>✔</td>
</tr>
<tr>
<td>PROFIBUS DP</td>
<td>✔</td>
</tr>
<tr>
<td>Serial</td>
<td>✔, RS-422</td>
</tr>
<tr>
<td>DeviceNet™</td>
<td>✔</td>
</tr>
<tr>
<td>HIPERFACE</td>
<td>✔</td>
</tr>
<tr>
<td>CANopen</td>
<td>✔</td>
</tr>
<tr>
<td>Output time</td>
<td>1 ms ... 4 ms (depending on type)</td>
</tr>
<tr>
<td>Ambient temperature operation</td>
<td>–40 °C ... +75 °C, operation with cooling case, operation with heating (depending on type)</td>
</tr>
<tr>
<td>Ambient storage temperature</td>
<td>–25 °C ... +75 °C</td>
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</table>

Product description

The DME4000 is a reflector-based distance sensor supporting sensing ranges of up to 220 m. Highly dynamic and precise measurement, multi-functional switching outputs, and inputs for standby, preset, maintenance, and other system functions are some of the key features this sensor offers.

At a glance

- Measuring range 0.15 m ... 50 m / 0.15 m ... 130 m / 0.15 m ... 220 m
- Short positioning operations thanks to very fast measuring cells
- Very high accuracy and reproducibility
- Easy commissioning: illuminated LC display with diagnostics information
- Easy mounting and alignment concept: alignment bracket with spring / visible red light
- Variety of interfaces: SSI, RS-422, PROFIBUS, HIPERFACE, CANopen, DeviceNet

Your benefits

- Fast measurement cycles offer optimized integration into control loops for increased productivity
- Red laser light as well as adjustable mounting brackets (optional accessory) enable fast and easy alignment, ensuring on-time and cost-effective installation
- Multi-point self checks provide maintenance and replacement warnings increasing overall machine availability
- A tough metal housing as well as heating and cooling accessories ensure reliability in rough ambient conditions
- User-friendly display with easy-to-use menu along with external PC/PLC programming offers fast and cost-efficient setup
- Multiple serial interfaces provide high-speed position output to the controller and high flexibility in application integration
- Integrated speed monitoring offers additional information for increased process reliability
### Ordering information

Other models and accessories → [www.sick.com/DME4000](http://www.sick.com/DME4000)

- **Target:** Reflector
- **Laser class:** 2 (IEC 60825-1:2014, EN 60825-1:2014) complies with 21 CFR 1040.10 and 1040.11 except for the tolerance according to “Laser Notice No. 50” from June 24, 2007

<table>
<thead>
<tr>
<th>Measuring range</th>
<th>Repeatability</th>
<th>Communication interface</th>
<th>Accuracy</th>
<th>Type</th>
<th>Part no.</th>
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</tbody>
</table>
SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

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