MNI40—MAGNETIC NONCONTACT
INCREMENTAL ROTARY ENCODER
The new MNI40 magnetic incremental rotary encoder combines an extraordinarily robust measuring system with intelligent assistance functions in an extremely compact unit. The MNI40 is unaffected by ambient conditions and works reliably in dirty, dusty, or wet environments. Simple installation and adjustment of the sensor using a two-color LED status indicator considerably reduce installation time.

### Applications
- Machine/plant construction
- Automation technology
- Wind turbines
- Vehicle manufacture
- Construction machinery
- Lifting and conveyor technology
- Outdoor applications/offshore

### Robust Design
A fully encapsulated IP67 housing together with an elastomer-coated magnetic wheel provide an exceptionally robust system.

### Easy to Use
Long service life at high speeds and temperatures.

Internal intelligence provides easy setup and reliable operation.

Simple installation and adjustment reduce costs.

Self-diagnostics provide quality assurance.

### Status Indication
Two-color LEDs (red/green) provide clear status indication.

- **Solid red LED**: Completely misaligned
- **Blinking red LED**: Housing too far away from magnetic wheel
- **Blinking green LED**: Slightly offset alignment
- **Solid green LED**: Housing at proper distance from magnetic wheel
- **Proper alignment**: Proper alignment
- **Housing at proper distance from magnetic wheel**: Housing at proper distance from magnetic wheel
### TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th><strong>MNI40N</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pulse count</strong> [ppr]</td>
<td>up to 3,600</td>
</tr>
<tr>
<td><strong>Housing style</strong></td>
<td>Compact rectangular housing with magnetic wheel</td>
</tr>
<tr>
<td><strong>Hollow shaft</strong> [mm]</td>
<td>ø6, ø10, ø12, ø15</td>
</tr>
<tr>
<td><strong>Maximum rpm</strong> [min⁻¹]</td>
<td>30,000</td>
</tr>
<tr>
<td><strong>Operating voltage</strong> [VDC]</td>
<td>5 or 10...30</td>
</tr>
<tr>
<td><strong>Output type</strong></td>
<td>Push-pull, RS 422</td>
</tr>
<tr>
<td><strong>Max. output frequency</strong> [MHz]</td>
<td>1</td>
</tr>
<tr>
<td><strong>Signal outputs</strong></td>
<td>A, Ā, B, B, O, Ō</td>
</tr>
<tr>
<td><strong>Degree of protection</strong></td>
<td>IP67</td>
</tr>
<tr>
<td><strong>Shock resistance</strong></td>
<td>200 g</td>
</tr>
<tr>
<td><strong>Vibration resistance</strong></td>
<td>40 g</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>-40 °C...100 °C</td>
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</tbody>
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