The DMGZ 300 Series load cells measure force in the direction of the center axis of the sensor. A force is applied via threaded shaft, or other means, to the measuring mechanism of the sensor. They can provide both compression or tension measurement. The integrated high overload protection protects the sensor against damage. Recalibration is not required.

### DMGZ 300

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### Functional description

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- **Functional description**
  - The FMS DMGZ 300 Series compression/tension load cells utilize four foil-type strain gauges in a full wheatstone bridge configuration mounted on the sensor sleeve. This accurate and robust measuring method is ideal to work in harsh environments.

### Applications

- **Applications**
  - Compression or tension force measurement
  - Nip pressure measurement
  - Punching forces

- **Stainless steel sensor, aluminium sleeve**
  - Corrosion resistant, ultra-durable

- **Compact design**
  - Easy mounting with minimal space required
DMGZ Series • Dimensions in mm

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Nominal force (kN)</th>
<th>Dimensions mm</th>
<th>Overload protection</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMGZ323A.RF</td>
<td>0.3</td>
<td>d1: 10 x 10 x</td>
<td>M 20 x 1.5</td>
<td>30</td>
</tr>
<tr>
<td>DMGZ325A.RF</td>
<td>0.5</td>
<td>d1: 10 x 10 x</td>
<td>M 30 x 2</td>
<td>36</td>
</tr>
<tr>
<td>DMGZ331A.RF</td>
<td>1.0</td>
<td>d1: 10 x 10 x</td>
<td>M 10 x 10</td>
<td>3 x</td>
</tr>
<tr>
<td>DMGZ3325A.RF</td>
<td>2.5</td>
<td>d1: 50 35 68 52 12</td>
<td>M 20 x 1.5</td>
<td>30</td>
</tr>
<tr>
<td>DMGZ335A.RF</td>
<td>5.0</td>
<td>d1: 10 x 10 x</td>
<td>M 10 x 10</td>
<td>3 x</td>
</tr>
<tr>
<td>DMGZ341A.RF</td>
<td>10.0</td>
<td>d1: 10 x 10 x</td>
<td>M 10 x 10</td>
<td>3 x</td>
</tr>
<tr>
<td>DMGZ342A.RF</td>
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<td>d1: 50 35 68 52 12</td>
<td>M 20 x 1.5</td>
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</tr>
<tr>
<td>DMGZ345A.RF</td>
<td>5.0</td>
<td>d1: 10 x 10 x</td>
<td>M 10 x 10</td>
<td>3 x</td>
</tr>
</tbody>
</table>

DMGZ Series • Nominal force / Dimensions in mm

Options:
- H14 = Right angle connector
- H16 = Temperature range up to 120 °C
- H18 = Straight waterproof connector
- H29 = Modified wiring and sealing for use in aggressive media (mostly acids)
- H30 = Modified wiring and sealing for use in hydrocarbon media (mostly oils and fuels)

Order code (example):
DMGZ335A.RF.H14

Scope of delivery:
Straight connector