The series MTC-FS multilane Weigh Cells cover a weighing range up to 50 g. They have been specifically designed as a compact sensor component and are especially suited for installation in multitrack applications. Centreline distances of 15 mm or more can be implemented by installing sensors at the same time. An additionally integrated sensor eliminates low-frequency ground interference and vibrations while maintaining the Weigh Cells speed and accuracy.

As a ready-for-connection installation component, the Weigh Cell already supplies final weight values via a CAN interface as a standard feature. The integrated software filters can be configured in multiple ways and thus allow optimal adaptation of the weighing system to the relevant local conditions. The Weigh Cells extensive command set enables easy control engineering integration.

When it comes to the number of tracks and the centreline distance in conjunction with the weighing range and the design, all MTC-FS systems are always customer specific and individual.

You need an individual solution? Please contact us.

/ TO BE USED IN
- Filling machines for vials, syringes, etc.
- Packaging machines
- Capsule and tablet weighing machines

/ FEATURES
- Weighing range up to 50 g
- Additive dead load range up to 30 g
- Active Vibration Compensation (AVC)
- High or flat type structured shape
- Aluminum or stainless steel housing
- Track distance from 15 mm
- Up to 18 tracks in one housing
- Protection class up to IP42
- Binary trigger input
- Interface 1: CAN, RS 422
- Interface 2: RS 232 for service and configuration
- Sampling rate 1 ms
### WEIGH CELL TYPE

<table>
<thead>
<tr>
<th></th>
<th>MTC 1/5-FS</th>
<th>MTC 2/10-FS</th>
<th>MTC 10/30-FS</th>
<th>MTC 50/30-FS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weighing range</td>
<td>1 g</td>
<td>2 g</td>
<td>10 g</td>
<td>50 g</td>
</tr>
<tr>
<td>Electrical adjustable dead load range</td>
<td>1 - 5 g</td>
<td>5 - 10 g</td>
<td>10 - 30 g</td>
<td>10 - 30 g</td>
</tr>
<tr>
<td>Display value (d)</td>
<td>0.00002 g</td>
<td>0.0002 g</td>
<td>0.0005 g</td>
<td>0.001 g</td>
</tr>
<tr>
<td>Display value (d) with higher resolution (Option)</td>
<td>0.00001 g</td>
<td>0.0001 g</td>
<td>0.0002 g</td>
<td>0.0005 g</td>
</tr>
<tr>
<td>Linearity ≤</td>
<td>± 0.00002 g</td>
<td>± 0.0002 g</td>
<td>± 0.0005 g</td>
<td>± 0.001 g</td>
</tr>
<tr>
<td>Repeatability (S) ≤</td>
<td>0.00001 g</td>
<td>0.0001 g</td>
<td>0.0002 g</td>
<td>0.0005 g</td>
</tr>
<tr>
<td>Smallest possible track distance</td>
<td>25 mm</td>
<td>15 mm</td>
<td>15 mm</td>
<td>25 mm</td>
</tr>
<tr>
<td>Maximum dimension of weighing platform</td>
<td>15 mm</td>
<td>20 mm</td>
<td>20 mm</td>
<td>30 mm</td>
</tr>
<tr>
<td>Settling time 1, 2 (on 1% of final weighing range value)</td>
<td>&lt; 200 ms</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection class of the Weigh Cell</td>
<td>IP42</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature range</td>
<td>+5 °C to +30 °C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>24 V DC, ± 5%, 0.5 A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interface 1</td>
<td>CAN, RS 422</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interface 2</td>
<td>RS 232, 115200/8/1/odd</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Housing material</td>
<td>Aluminum hard coated</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) Depends on the preference settings and on setup and ambient conditions of the system.
2) The absolute repeatability is +/- 3 s.
3) The temperature range is +10 °C to +30 °C.
4) From weighing platform mounting bolt.

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### OPTIONS

- **Option 9:** Stainless steel housing
- **Option 10:** RS 422 instead of CAN interface
- **Option 12:** Higher display resolution
- **Option 13:** Binary trigger input
- **Option 32:** Built in test weight

With the optional CFI (CAN-Fieldbus-Interface) it is possible to connect to a variety of industrial fieldbus systems.

Please see specifications on our [website](https://wipotec-wt.com).
Design examples

All measurements in mm  Subject to technical modifications
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