TYPICAL APPLICATIONS
The FMH sensor was designed for applications where there is a desire to be able to service the sensor with a minimum amount of space available to remove and replace the sensor. Some potential applications include: Fire Trucks, Surface Drills (mining, wells), Concrete pumpers, Telescopic Material Handlers.

Designed for use with hydraulic cylinders in mobile applications, the externally threaded Flexible MH sensor features an innovative two-part design. This design allows users to separate the flexible sensing element and electronics from the housing without opening the hydraulic system.

While it is manageable to install and remove hydraulic cylinder sensors at a manufacturing facility, it can be extremely challenging in the field. Trained service technicians can remove and replace the internal components with just 200 mm of clearance regardless of stroke length and without breaking the hydraulic seal. This serviceability means decreased downtime and disruption, providing increased productivity. Replacement units ship as coiled rings to ease handling and reduce shipping costs.
### Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measured value</td>
<td>Position</td>
</tr>
<tr>
<td>Output</td>
<td>Analog (Voltage / Current), CANbus</td>
</tr>
<tr>
<td>Resolution</td>
<td>Typ. ±0.2 mm</td>
</tr>
<tr>
<td>Stroke length</td>
<td>500…5000 mm</td>
</tr>
<tr>
<td>EMC</td>
<td>ISO 14982 - Agricultural and forestry machinery</td>
</tr>
<tr>
<td></td>
<td>ISO 13766 - Earth-moving machinery</td>
</tr>
<tr>
<td></td>
<td>EN 13309 - Construction machinery</td>
</tr>
<tr>
<td></td>
<td>RF immunity to 200 V/m per ISO 11452-2/-4</td>
</tr>
<tr>
<td>Connection type</td>
<td>M12 connector (IP69K with mating M12 connector)</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>12 / 24 VDC (8…32 VDC)</td>
</tr>
</tbody>
</table>

### Sensor dimension references

- min. 200 mm radius
- 60 mm housing

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**Document Part Number:**
551586 Revision B (EN) 07/2016

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