More Precision

wireSENSOR // Draw-wire displacement sensors
Rugged draw-wire mechanics for encoder mounting

The wireSENSOR mechanics of the Z60, P96, P115 and P200 series are designed for easy mounting of an incremental or absolute encoder. The selection of the interface, resolution and type of connection can therefore be individually configured. Optimum matching to the signal conditioning system is ensured. High precision components and a rugged housing offer high operational reliability and a long life time even under harsh industrial conditions.

A complete measurement unit always consists of the basic draw-wire mechanism and the adapter for the customer-specific encoder. The adapter contains all the necessary mounting accessories for fitting the encoder and is included in delivery of the P96, P115 and P200 series.

For the customer-specific encoder or potentiometer various draw-wire mechanics are available with measuring ranges up to 50m.
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<td>3000mm</td>
<td>5000mm</td>
<td>7500mm</td>
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<td>Linearity</td>
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<td>&lt;1mm</td>
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<td>Travel per encoder revolution</td>
<td>150mm</td>
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<td>Suitable adapter-flange for encoder</td>
<td>clamping flange</td>
<td>WDS-EAC 1</td>
<td>WDS-EAC 96/200</td>
<td>WDS-EAC 115</td>
<td>WDS-EAC 96/200</td>
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<td>Wire mounting</td>
<td>wire clip</td>
<td>thread M4</td>
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<td>Wire extension force (max)</td>
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<tr>
<td>Weight</td>
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<td>1.1kg</td>
<td>1.4kg</td>
<td>1.9kg</td>
<td>2.8kg</td>
<td>3.2kg</td>
<td>9.5kg</td>
<td>10kg</td>
<td>11kg</td>
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</table>

FSO = Full Scale Output

**Article description**

WDS - 5000 - P115 - M - SO

Wire brush (only P115/P200)

Mechanics

Model 260/P96/P115/P200

Measuring range in mm
**Model Z60**

- 2x set screw M4
- 2x slot nuts
- 4x M6
- ø58
- ø50
- ø35
- ø6H7
- 36
- 10
- 55.5 for encoder with synchro flange
- 68.5 with clamping flange

**Model P96**

- 2x set screw M4
- 2x slot nuts
- 4x M6
- ø13
- 10
- 10.5
- 12.5
- 25
- 2x ø4.3
- 23

<table>
<thead>
<tr>
<th>MR (mm)</th>
<th>A (mm)</th>
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<tr>
<td>2000</td>
<td>26</td>
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<tr>
<td>3000</td>
<td>41.5</td>
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Model P115

MR (mm) A (mm) B (mm)
5000 28 82.5
7500 37 105.5
10000 44.5 148.5
15000 61 180.5

Model P200

MR (mm) A (mm) B (mm)
30000 268 75
40000 300 95
50000 333.5 95
Draw-wire sensor mechanics, plastic housing

- Use almost any encoder
- Robust plastic housing
- High quality sensor components

**Dimensions:**

- **ø 42 ±0.1**
- **ø 6 H7**
- **+0.012 0**
- **27.5**
- **24.5**
- **22.2 (38.2)**
- **3x ø 4.3**
- **120°**
- **3x ø 4.2**
- **Mounting holes**
- **ø8**
- **10**
- **M3 0.5 1**

**Notes:**

- Do not open the screws.
The WPS-2300-MK88-M is designed with only one wire layer which is wound onto the drum. This sensor design achieves the highest measurement accuracy. If a reduced measurement accuracy is sufficient, larger measurement ranges can be achieved with the same sensor dimensions. This can be seen by means of a sensitivity characteristics (see diagram).
High performance sensors made by Micro-Epsilon

- Sensors and systems for displacement and position
- Sensors and measurement devices for non-contact temperature measurement
- 2D/3D profile sensors (laser scanner)
- Optical micrometers, fibre optic sensors and fibre optics
- Color recognition sensors, LED analyzers and color inline spectrometer
- Measurement and inspection systems