Displacement Sensors
Angle Sensors

- inductive
- magnetostrictive

applications
- mechanical engineering
- power station engineering
- plant construction
- vehicle manufacturing
- process technology

measuring stroke up to 1500mm
measuring angle up to 120°

Made in Germany
DIN ISO 9001 certified
displacement sensor
inductive/magnetostrictive
- measuring stroke up to 1500mm
- integrated or external electronics

gauge version
with return spring
- measuring stroke up to 100mm
- housing 8 to 25mm diameter
- integrated or external electronics

gap sensor
with measuring tag
- measuring stroke up to 20mm
- integrated electronics (calibrated)

angle sensor
- measuring angle up to 120°
- housing 36 up to 104mm diameter
- integrated or external electronics
electronic modules
- with in-house ASIC
- current or voltage output
- 1- or 2-channel version
- up to 7 channels on europe-format

special structural shapes
- manufacture of customer-specific special versions

modular structure
- enables rapid and inexpensive development and manufacture of customer-specific sensors

typical sensor design:
1. stainless steel housing
2. shielding and electronics
3. high precision coil
4. stainless steel plunger

standard type transducers

<table>
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<tr>
<th>series</th>
<th>housing</th>
<th>stroke/angle</th>
<th>electronics</th>
<th>remarks</th>
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<tbody>
<tr>
<td>SM20/21/22</td>
<td>Φ8/Φ10mm</td>
<td>up to 20mm</td>
<td>external</td>
<td>miniature version</td>
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<tr>
<td>SM24</td>
<td>M12x1</td>
<td>up to 15mm</td>
<td>external</td>
<td>M12x1 housing</td>
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<tr>
<td>SM26</td>
<td>Φ12mm</td>
<td>up to 200mm</td>
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<td>gauge type available</td>
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<td>SM27</td>
<td>Φ10mm</td>
<td>up to 20mm</td>
<td>integrated</td>
<td>5V supply voltage</td>
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<tr>
<td>SM30</td>
<td>M30x1.5</td>
<td>up to 15mm</td>
<td>integrated</td>
<td>M30x1.5 housing</td>
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<td>SM32</td>
<td>25x25mm</td>
<td>up to 15mm</td>
<td>integrated</td>
<td>aluminium housing</td>
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<td>SM40</td>
<td>Φ25mm</td>
<td>up to 200mm</td>
<td>integrated</td>
<td>standard displacement sensor</td>
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<tr>
<td>SM42</td>
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<td>up to 360mm</td>
<td>integrated</td>
<td>extra short length</td>
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<td>SM44</td>
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<td>integrated</td>
<td>sturdy aluminium housing</td>
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<td>20mm</td>
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<td>passable tag</td>
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<td>SM60</td>
<td>Φ36.5mm</td>
<td>up to 90°</td>
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<tr>
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<td>Φ36.5mm</td>
<td>up to 120°</td>
<td>integrated</td>
<td>small shape</td>
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<td>SM62</td>
<td>Φ58mm</td>
<td>up to 120°</td>
<td>integrated</td>
<td>standard angle sensor</td>
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<tr>
<td>SM64</td>
<td>Φ104mm</td>
<td>up to 2x 120°</td>
<td>integrated</td>
<td>dual measuring system</td>
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<td>SM70</td>
<td>Φ10/ SW41</td>
<td>up to 1500mm</td>
<td>integrated</td>
<td>magnetostrictive / pressure proof</td>
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</table>
development and manufacture

- In-house development and manufacture of high precision coils, electronics and special machinery

- Our displacement and angle sensors are resistant to the environment, tested for shock and vibration and fulfill the existing EMC regulations. The testing steps for each sensor are computer monitored and documented

- Customer-specific special designs even for small numbers

- Complete regulating and control systems

- Certified quality management

special machinery for isocyclic winding of coils