Guiding and Attaching the Wire

- If the measuring wire must be pulled out of the sensor to guide the wire or attach it to the measured object:
  - the sensor must not be held by a second person during that process,
  - the measuring wire must not be pulled out beyond the measuring range listed,
  - the area around the sensor must be protected against snapping of the measuring wire.

Put the measuring wire to the measured object using a lifting loop.

Guide the measuring wire vertically out of the sensor housing.

Diagonal pull is only permitted up to 3 degrees.

If you drag the measuring wire over the insertion hole or other objects, the measuring wire will be damaged and/or tear.

Guide the measuring wire in a protected area so that it cannot get caught or otherwise be damaged.

Attachment and maximum diagonal pull of the measuring wire

### Declaration of Incorporation

Declaration of Incorporation according to EC Machinery Directive 2006/42/EC, Annex II, Part B

The manufacturer and person authorized to compile the relevant technical documents MICRO-EPSILON MEISTECHNIK GmbH & Co. KG
Königbacher Straße 15, 94496 Ortenburg / Germany hereby declare that the machine designated below complies with the relevant fundamental health and safety requirements of the EC Machinery Directive, including modifications to it applicable at the time of this declaration, based on its design and construction and in the version put on the market by us - to the extent that the scope of supply allows.

Machine design: Draw-wire sensor

- Potentiometer output
- Input voltage max. 30 VDC
- Resistance 5 kOhm ±5 %
- 5 kOhm ±20 %
- Recommended contact current ≤ 1 μA
- Temporary contact current 10 mA
- Use potentiometers only as voltage dividers, not as variable series resistors!

You can download a PDF of detailed operating instructions from our website:

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Ortenburg, May 22th 2019
Dr. Thomas Wisspeintner
Managing Director

Assembly instructions wireSENSOR WDS series MT19/MT33/MT56
Warnings
- Do not open the sensor housing.
- Do not pull or loop the measuring wire around unprotected body parts.
- Do not pull out the measuring wire beyond the measuring range listed.
- Do not let the measuring wire snap.
  > Risk of injury
  - Do not damage the measuring wire.
  - Do not oil or grease the measuring wire.
  - Do not kink the measuring wire.
  - Do not pull the measuring wire diagonally.
  - Do not let the measuring wire drag around objects.
  - Attach the measuring wire to the measured object while the wire is retracted.
  > Damage to or destruction of the sensor

Sensor Mounting
Install the sensor according to the information in the table below:

<table>
<thead>
<tr>
<th>Model</th>
<th>Screws 1</th>
<th>Threaded holes (on sides)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WDS-40-MT19-P</td>
<td>2 x M2</td>
<td>8 x M2; depth 5 mm</td>
</tr>
<tr>
<td>WDS-80-MT33-P</td>
<td>2 x M3</td>
<td>8 x M3; depth 6 mm</td>
</tr>
<tr>
<td>WDS-130-MT56-P</td>
<td>2 x M4</td>
<td>8 x M4; depth 7 mm</td>
</tr>
</tbody>
</table>

The sensor does not have to be oriented in a special way.
Select the installation position in such a way that damage to or contamination of the measuring wire is avoided.

Installation Options
- If possible, prefer an installation position in which the measuring wire exits downward. This prevents liquids from entering the measuring wire outlet.

Proper Environment
- Sensor protection class: IP 50
- Temperature range:
  - Operation: -40 to +85 °C (-40 ... +185 °F)
  - Storage temperature: -40 to +85 °C (-40 ... +185 °F)
- Humidity: 5 - 95 % (non-condensing)
- Ambient pressure: Atmospheric pressure