Connect the power supply according to the safety regulations for electrical equipment.

Risk of injury
Risk of damage to or destruction of the sensor
Avoid shocks and impacts to the sensor. Do not bend or cant the sensor rod and the measuring tube.
Do not carry the sensor on the sensor rod.

Sensor housing Sensor rod

Scope of Supply
1) Models with plug connection only with suitable and connected mating plug

The following apply to induSENSOR EDS eddy current long-stroke displacement sensors with current output:
1. EU Directive 2014/30/EU
2. EU Directive 2011/65/EU
The sensor satisfies the requirements if the guidelines in the operating instructions are maintained in installation and operation.

Proper Environment
- Protection class: IP65
- Temperature range: 
  - Storage: -40 ... +100 °C (-40 ... +212 °F)
  - Operation: -40 ... +85 °C (-40 ... +185 °F)
- Humidity: 5 - 95 % (non-condensing)
- Ambient pressure: 450 bar (front side)

Notes on CE Marking
1) The C705-5 sensor cable is available as an optional accessory, see Appendix of the Operating Instructions.
2) Can be converted to voltage output with external load resistor!
Installation and Assembly

Precautions

- The measuring tube must not contact the sensor rod during operation.
- Damage to or destruction of the sensor through abrasion is possible.
- Do not deform or shorten the measuring tube.
- Loss of specified technical data
- Do not crush the O-ring or damage through sharp-edged items.
- Loss of functionality

Sensor Mounting:

Mount the sensor on the cylinder with 6 cylinder head screws (M8 x 6).

Sealing is provided by a supplied O-ring on the sensor shaft.

Sensor rod
Cylinder Piston
Sensor shaft Measuring tube O-ring
Displacement
Measuring Tube Guidance and Fastening

Mount the measuring tube flush in the piston bore.

Press measuring tube flush into piston

The dimensions for the measuring tube can be found in the adjacent dimensional drawing. The measuring tube must not touch the sensor shaft when the piston is retracted.

Note the measuring tube position at zero point (= 4 mA output).

Improper measuring tube guidance can lead to increased wear and premature failure.

A slightly eccentric mounting of the measuring tube has no negative influence on the sensor signal.

Mount the measuring tube in the piston by means of pressing or glueing.

Spot clamping is not permissible.

The specified technical data only apply when the measuring tube supplied by MICRO-EPSILON is used!

Measuring range
Sensor rod
Sensor tube
Measuring tube

<table>
<thead>
<tr>
<th>Measuring range</th>
<th>L (mm)</th>
<th>D (mm)</th>
<th>I (mm)</th>
<th>d (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 (3.93)</td>
<td>140</td>
<td>10</td>
<td>4</td>
<td>18</td>
</tr>
<tr>
<td>160 (6.29)</td>
<td>200</td>
<td>16</td>
<td>4</td>
<td>26</td>
</tr>
<tr>
<td>200 (7.87)</td>
<td>240</td>
<td>20</td>
<td>4</td>
<td>34</td>
</tr>
<tr>
<td>250 (9.84)</td>
<td>290</td>
<td>24</td>
<td>4</td>
<td>42</td>
</tr>
<tr>
<td>300 (11.81)</td>
<td>340</td>
<td>30</td>
<td>4</td>
<td>50</td>
</tr>
<tr>
<td>400 (15.74)</td>
<td>460</td>
<td>36</td>
<td>4</td>
<td>66</td>
</tr>
<tr>
<td>630 (24.80)</td>
<td>690</td>
<td>42</td>
<td>4</td>
<td>92</td>
</tr>
</tbody>
</table>

Sensor riding:

O-ring: 38.5 x 2.0
- Material: PUR

Mounting hole for flange:
- Ø: 42 -0.05 (+0.002 dia.)

Borehole surface:
- R_a = 0.8
- R_max = 3.2

- 42 +50 +25

The specified technical data only apply when the measuring tube supplied by MICRO-EPSILON is used!