Specifications:

- **Measurement range:** 0 up to 50 000 mm
- **Circumference drum:** 500 mm/turn
- **Sensing device:** Adaptable with all our incremental or absolute encoders
- **Material:** Body and cover - aluminium (RohS)  
  Measuring cable - Stainless steel
- **Cable diameter:** 0,90 mm
- **Standard linearity:** +/- 0,05% f.s.  
  +/- 0,01% f.s. (optional)
- **Max. Velocity:** 10 m/s
- **Max. Acceleration:** 1 m/s² (before cable deformation)
- **Weight:** ≈ 23 kg
- **Operating temperature:** -20° to +80°C
- **Storage temperature:** -30° to +80°C

Cable forces:

<table>
<thead>
<tr>
<th>Measurement range in mm</th>
<th>Min. pull-out force</th>
<th>Max. pull-out force</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 000</td>
<td>≈ 15,00 N</td>
<td>≈ 30,00 N</td>
</tr>
</tbody>
</table>

Ordering reference:

Model

**CDS18-MEC**

- **Measurement range:** 50 000 = 0 up to 50 000 mm  
  (Other ranges available on demand)
- **Drum circumference:** 500 = 500 mm/turn
- **Linearity:**
  - L005 = +/- 0,05% f.s.
  - L001 = +/- 0,01% f.s. (optional)

**OP options**

- **06** = Adapter flange for Ø58 encoder with Ø6 axis (06A for the provision of a Ø6 coupling device without flange)
- **10** = Adapter flange for Ø58 encoder with Ø10 axis
- **12** = Adapter flange for Ø90 encoder with Ø12 axis (12A for the provision of a Ø6 coupling device without flange)
- **AC** = Complete anodizing
- **BR** = Cleaning brush for the cable
- **BT** = Low temperature (down to -30°C)
- **CP** = Fixing of the measuring cable with a clevis
- **M6** = Fixing of the measuring cable with a M6 threaded rod
- **TEV** = Water evacuation holes + ex. 180° holes (see the options page for further details)

If no option is specified for the adapter flange, the draw-wire sensor will be supplied as standard with a Ø10 coupling brace without a flange. For the adaptation of an encoder or other sensor device which does not belong to our range, please contact us.

Reference example: CDS18-MEC-50000-500-L005-OP-10-AC

Made in France
CDS18-MEC-50000 mechanical devices - Measurement range 0 up to 50 000 mm

Dimensions:

Oldham coupling adaptable to the detection element that will be mounted (see options)

Modular base plate

Changes possible without further notice - Version 130425