

# CDS1850-MEC mechanical devices - Measurement range 0 up to 50 000 mm

## Specifications:

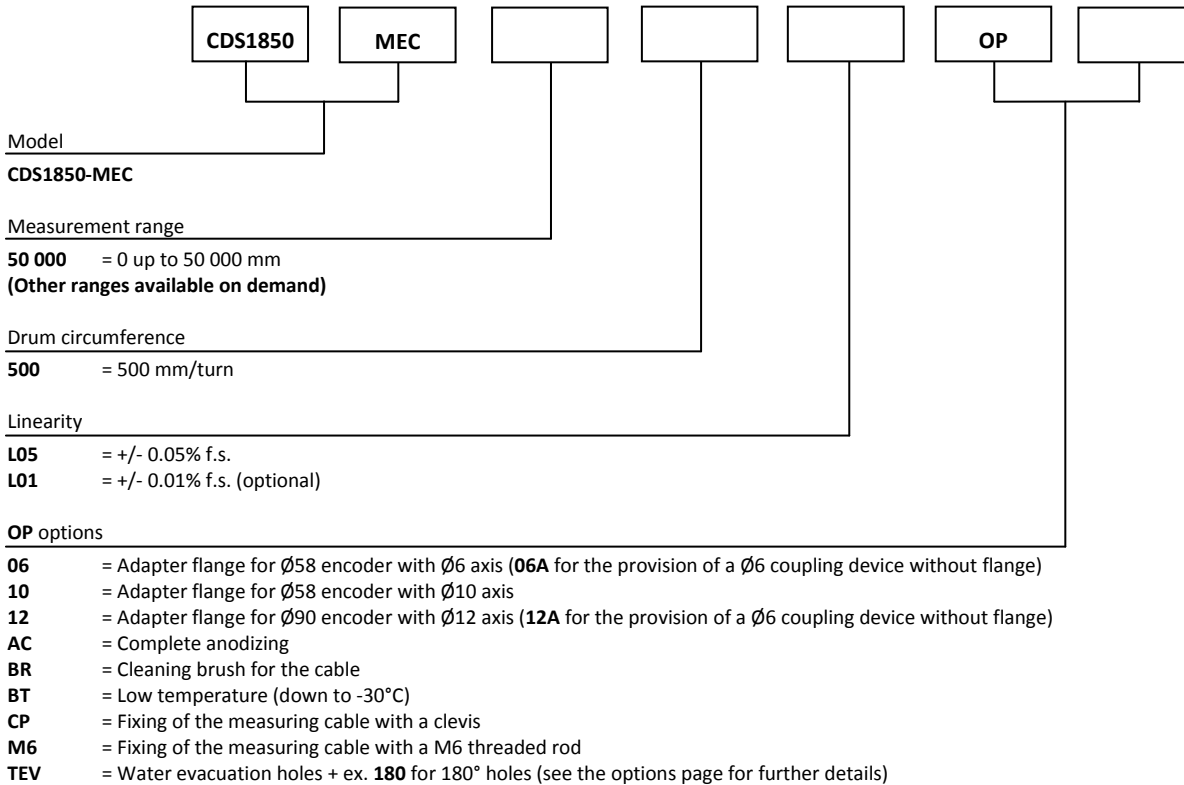
Measurement range	0 up to 50 000 mm
Circumference drum	500 mm/turn
Sensing device	Adaptable with all our incremental or absolute encoders
Material	Body and cover - aluminium (RohS) Measuring cable - Stainless steel
Cable diameter	0,90 mm
Standard linearity	+/- 0,05% f.s. +/- 0,01% f.s. (optional)
Max. Velocity	10 m/s
Max. Acceleration	1 m/s <sup>2</sup> (before cable deformation)
Weight	≈ 23kg
Operating temperature	-20° to +80°C
Storage temperature	-30° to +80°C



## Cable forces:

Measurement range in mm	Min. pull-out force	Max. pull-out force
50 000	≈ 15,00 N	≈ 30,00 N

## Ordering reference:



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: CDS1850-MEC-50000-500-L05-OP-10-AC



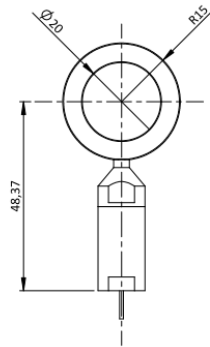
Tel : +33 (0)3 88 02 09 02 / Fax : +33 (0)3 88 02 09 03 / E-mail : info@ak-industries.com / Web : http://www.ak-industries.com

**Options:**

**Cable attachment head:**

**Standard**

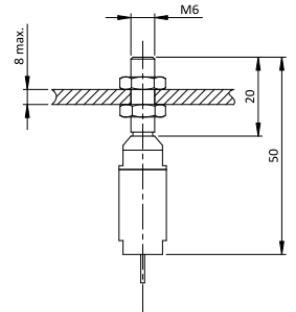
The attachment head is fixed with a M6 screw or a bearing console.



**Cable attachment fitted with a M6 threaded rod:**

**OP-M6**

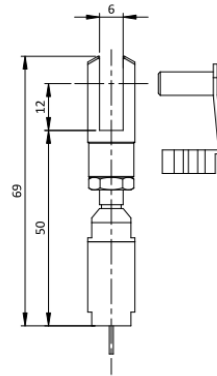
The rod attachment uses a threaded rod with 2 nuts (provided). The required thickness of the plate does not exceed 8 mm.



**Fixing via a rotary bearing console :**

**OP-CP**

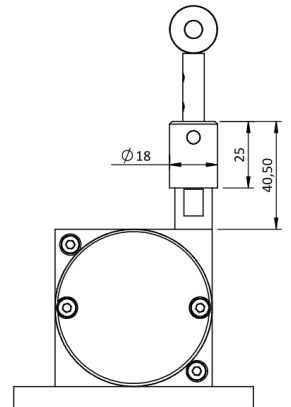
The attachment of the bearing console is done using a pin (provided).



**Cleaning brush for the cable:**

**OP-BR**

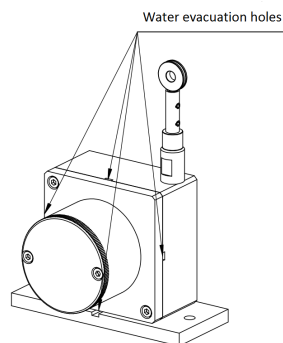
The cleaning brush wipes the cable in dusty or humid environments.



**Water evacuation holes:**

**OP-TEV**

The holes allow the natural flow of fluids out of the sensor in order to avoid their accumulation in the system.

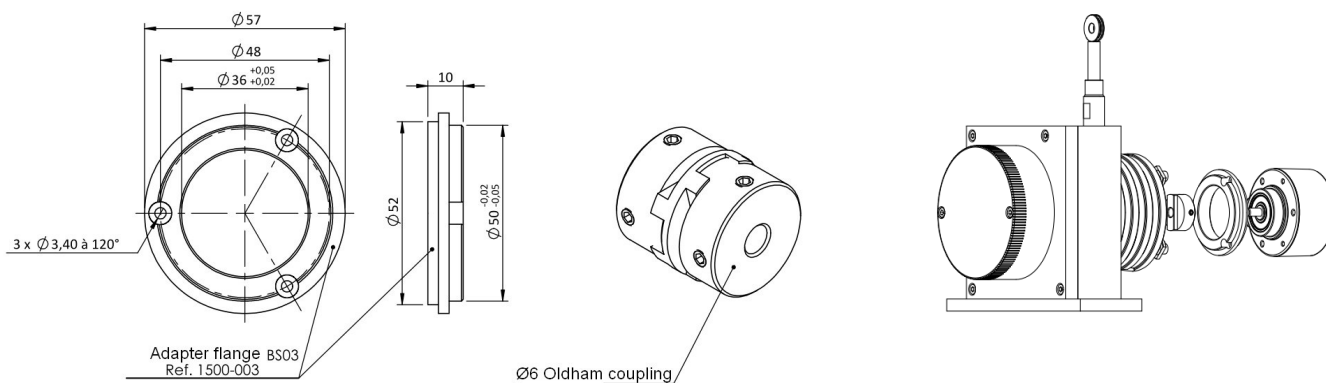


## Adapter flanges

### Adaptation for an encoder of diameter 58mm, and shaft diameter 6mm

OP-06: Adaptation flange +  $\varnothing 6$  Oldham coupling

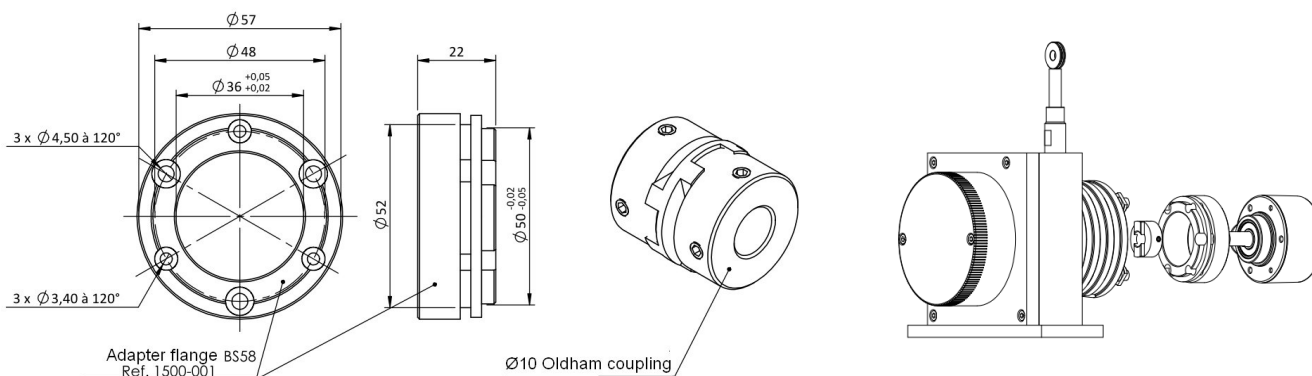
OP-06A:  $\varnothing 6$  Oldham coupling without adaptation flange



### Adaptation for an encoder of diameter 58mm, and shaft diameter 10mm

OP-10: Adaptation flange +  $\varnothing 10$  Oldham coupling

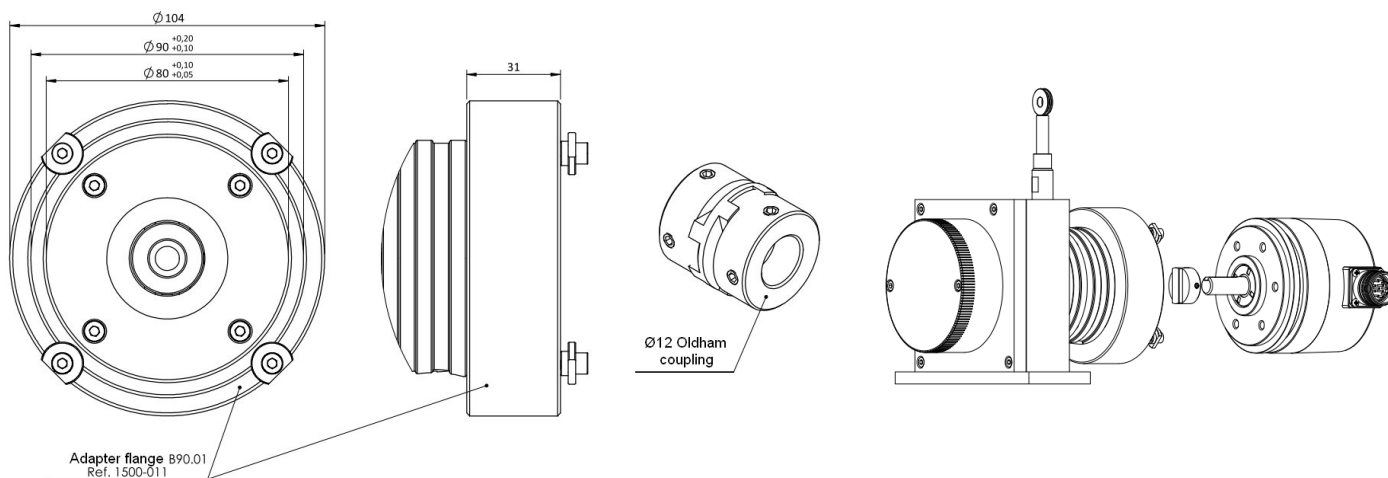
Without specification, a MEC series draw-wire sensor will always be delivered with an Oldham coupling  $\varnothing 10$  without adaptation flange.



### Adaptation for an encoder of diameter 90mm, and shaft diameter 12mm

OP-12: Adaptation flange +  $\varnothing 12$  Oldham coupling

OP-12A:  $\varnothing 12$  Oldham coupling without adaptation flange



**Dimensional Drawing**

