

CDS1215X-MEC (MECHANICAL DEVICE) – MEASUREMENT RANGE UP TO 15 000 MM

STAINLESS STEEL VERSION

Specifications:

Measurement range	0 up to 15 000 mm
Circumference drum	300 mm/turn
Sensing device	Adaptable with all of our incremental or absolute encoders
Material	Body and cover – Stainless steel grade 303 (1.4305) 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	4 m/s ² (before cable deformation)
Weight	≈ 13kg
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
15 000	≈ 10,50 N	≈ 15,00 N

Ordering reference:

CDS1215X - MEC - 15000 - 300 - L05 - OP - 10 - ...

Model

CDS1215X-MEC

Measurement range

15000 = 15 000mm
Or any other range between 0 and 15 000mm

Drum circumference

300 = 300mm/turn

Linearity

L05 = +/- 0.05% f.s.
L01 = +/- 0.01% f.s. (optional)

OP: Options

- 06** = Adapter flange for Ø58 encoder with Ø6 shaft (**06A** for the provision of a Ø6 coupling device without flange)
- 10** = Adapter flange for Ø58 with Ø10 shaft
- 12** = Adapter flange for Ø90 encoder with Ø12 shaft (**12A** for the provision of a Ø12 coupling device without flange)
- CP** = Fixing of the measuring cable with a clevis
- IX** = Measuring cable in stainless steel non coated
- M6** = Fixing of the measuring cable with a M6 threaded rod
- TEV** = Water evacuation holes

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



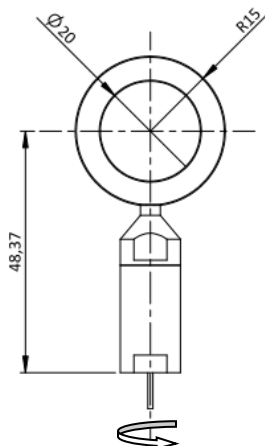
Tel : +33 (0)3 88 02 09 02 / Fax : +33 (0)3 88 02 09 03 / E-mail : info@ak-industries.com / Web : <http://www.ak-industries.com>

Options:

Fixing of the measurement cable with a lug:

Standard

The mounting of the lug on bearing balls allows a free rotation relative to the measuring cable.

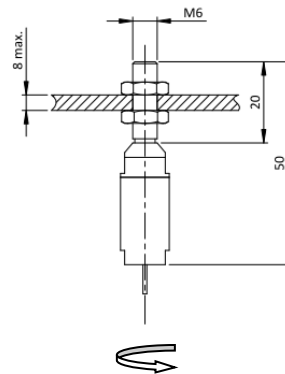


Fixing of the measuring cable with a M6 threaded rod:

OP-M6

The threaded rod is fixed using 2 nuts (supplied). The thickness of the fixing plate should not be more than 8mm.

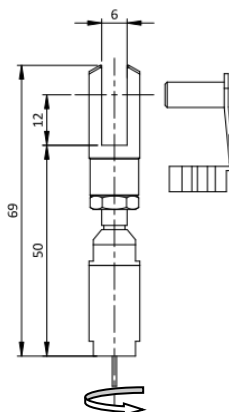
The mounting of the rod on bearing balls allows a free rotation relative to the measuring cable.



Cable attachment with a clevis:

OP-CP

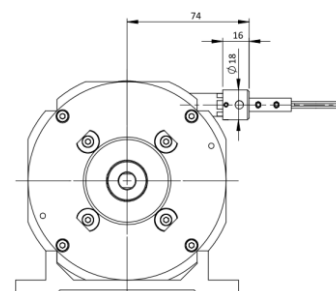
The clevis is fixed using a pin (supplied). The attachment mounted on ball bearings allows a free rotation relative to the measurement cable.



Cleaning brush for the cable

OP-BR

The brush allows the measurement cable to be cleaned in dusty or humid environments

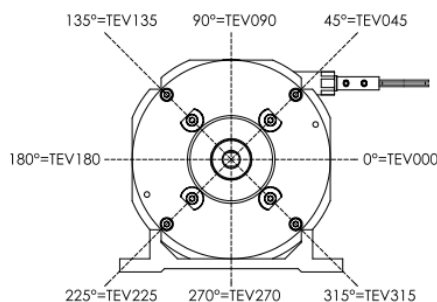
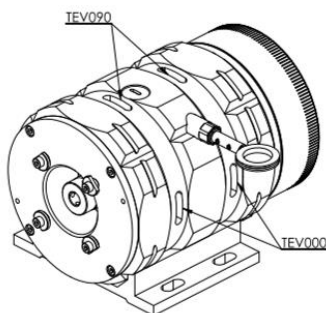


Water evacuation holes

OP-TEVXXX

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

Please specify the implantation angle of the drain holes according to the drawing below (Any value between 0 and 360°)

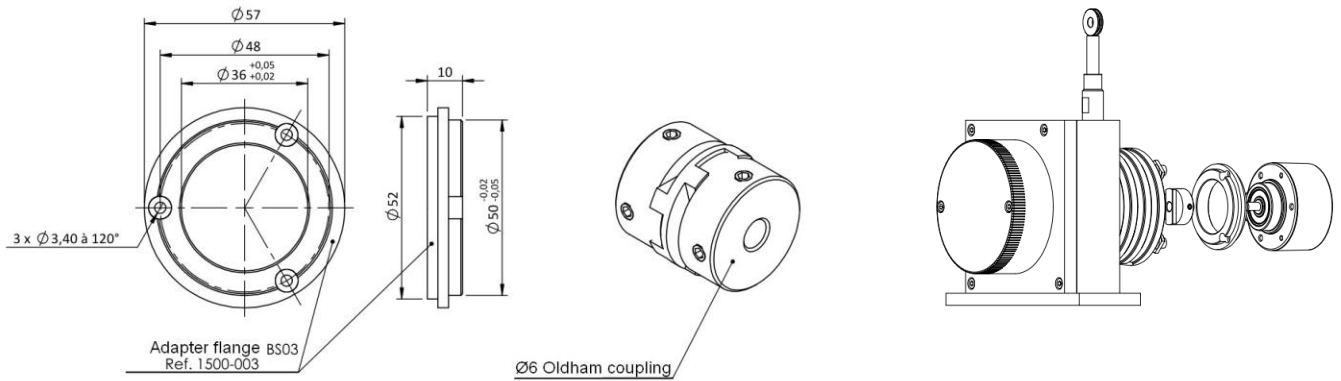


Options

Adaptation for an $\varnothing 58$ encoder, and $\varnothing 6$ shaft diameter

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

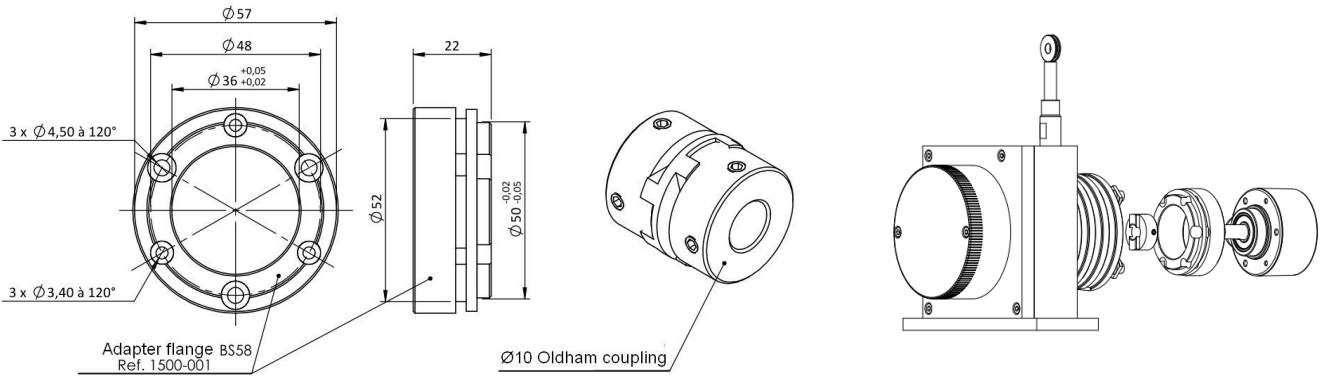
OP-06A: $\varnothing 6$ Oldham coupling without adaptation flange



Adaptation for an $\varnothing 58$ encoder, and $\varnothing 10$ shaft diameter

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

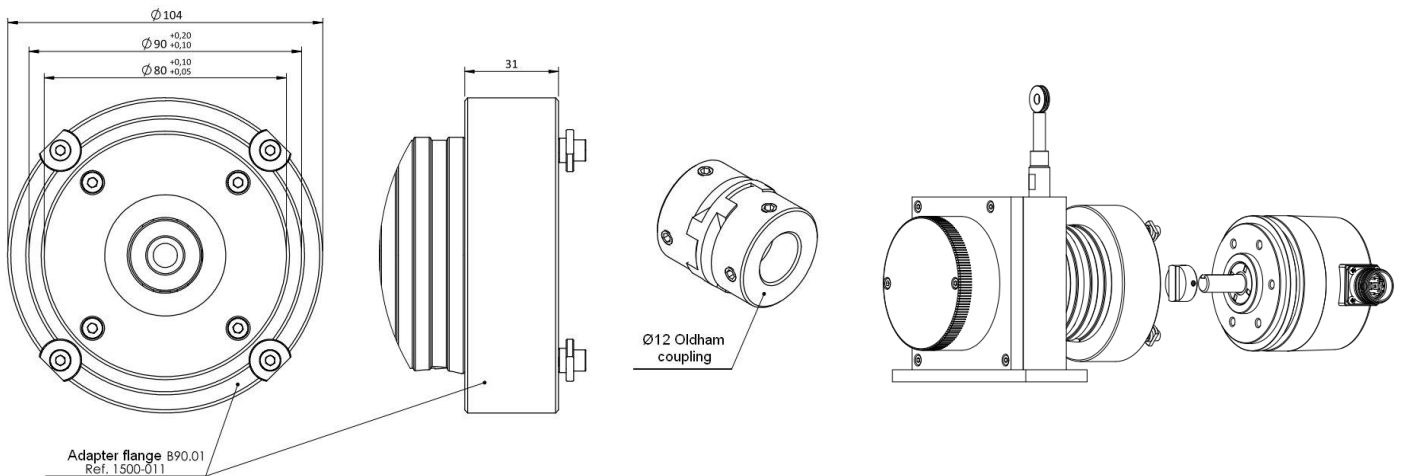
Without specification, a MEC series draw-wire sensor will always be delivered with an Oldham coupling $\varnothing 10$ without adaptation flange.



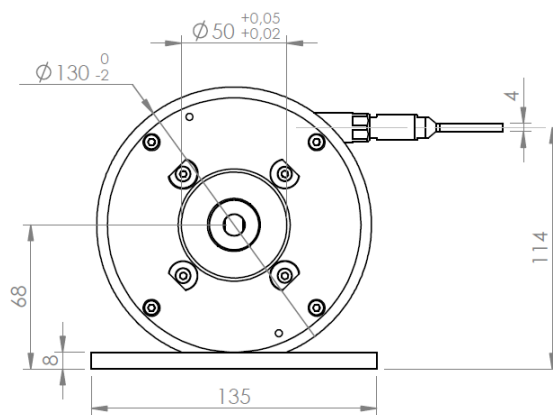
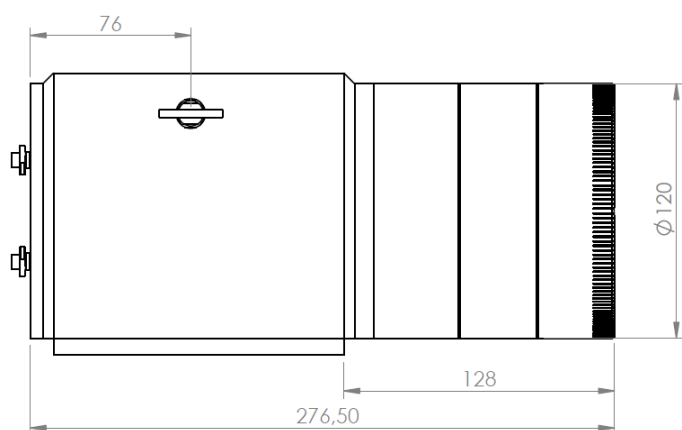
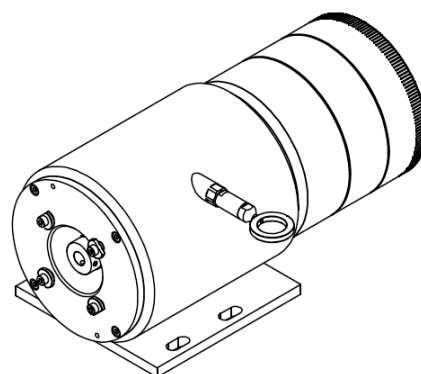
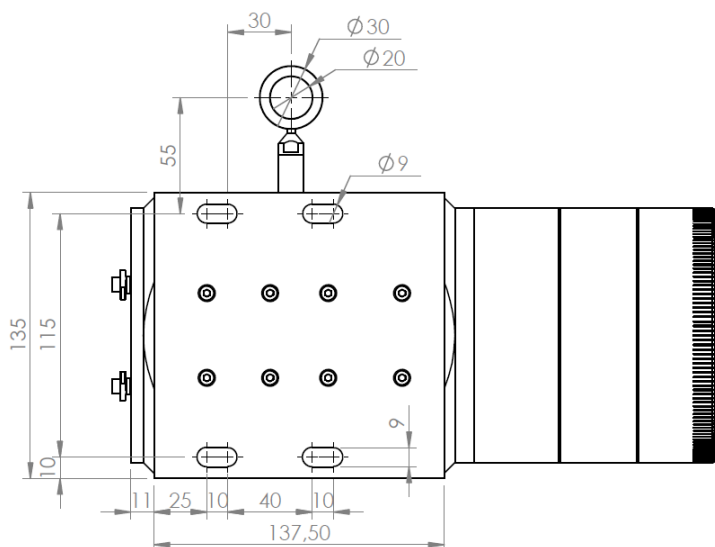
Adaptation for an $\varnothing 90$ encoder, and $\varnothing 12$ shaft diameter

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

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



Dimensional drawing



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