CDS1830-MEC mechanical devices - Measurement range 0 up to 30 000 mm

Specifications:

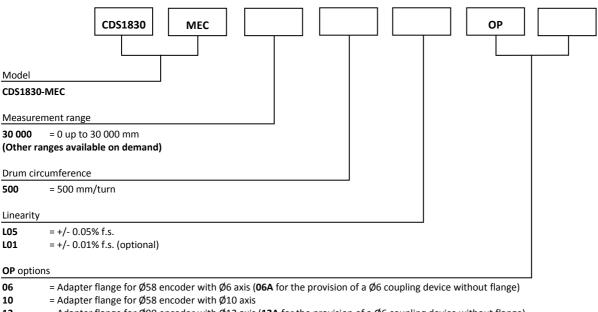
Measurement range	0 up to 30 000 mm	
Circumference drum	500 mm/turn	
Sensing device	Adaptable with all our incremental or absolute encoders	
Material	Body and cover - aluminium (RohS)	
	Measuring cable - Stainless steel	
Cable diameter	0,90 mm	
Standard linearity	+/- 0,05% f.s.	
	+/- 0,01% f.s. (optional)	
Max. Velocity	10 m/s	
Max. Acceleration	2 m/s ² (before cable deformation)	
Weight	≈ 15kg	
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
30 000	≈ 15,00 N	≈ 30,00 N

Ordering reference:



- = Adapter flange for \emptyset 90 encoder with \emptyset 12 axis (**12A** for the provision of a \emptyset 6 coupling device without flange) 12
- = Complete anodizing AC
- BR = Cleaning brush for the cable
- = Low temperature (down to -30°C) BT
- СР = 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 for 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 otin 10 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: CDS1830-MEC-30000-500-L05-OP-10-AC

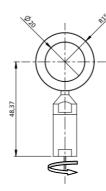


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Cable attachment head:

Standard

Measuring cable attachment with a lug. The attachment mounted on ball bearings allows a free rotation relative to the measurement cable.

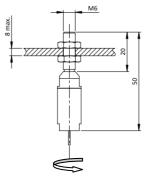


Cable attachment fitted with a M6 threaded rod:

OP-M6

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

The attachment mounted on ball bearings allows a free rotation relative to the measurement cable.

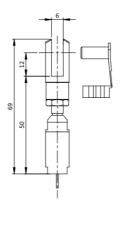


Cable attachment with a clevis :

OP-CP

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

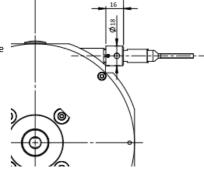
The attachment mounted on ball bearings allows a free rotation relative to the measurement cable.



Cleaning brush for the cable:

OP-BR

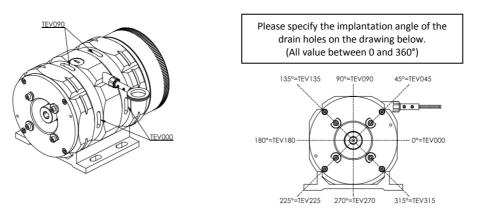
The cleaning brush wipes the cable in dusty or humid environments.



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.



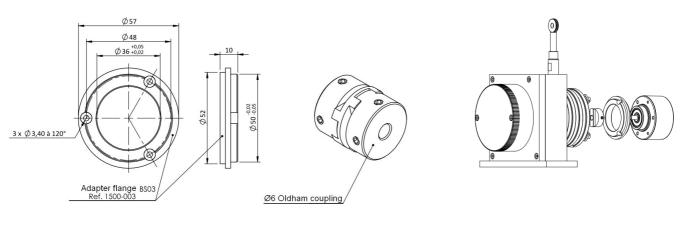


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Adapter flanges

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

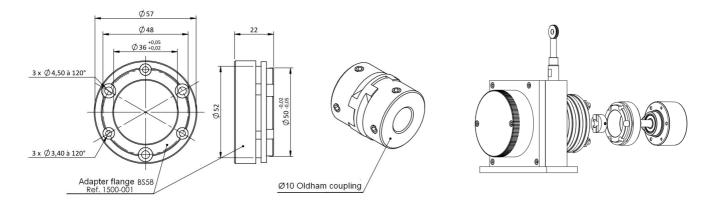
<u>OP-06:</u> Adaptation flange + Ø6 Oldham coupling <u>OP-06A:</u> Ø6 Oldham coupling without adaptation flange



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

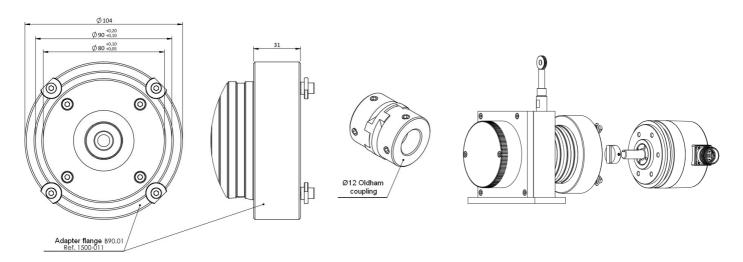
OP-10: Adaptation flange + Ø10 Oldham coupling

Without specification, a MEC series draw-wire sensor will always be delivered with an Oldham coupling Ø10 without adaptation flange.



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

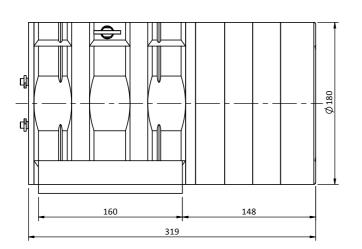
<u>OP-12:</u> Adaptation flange + Ø12 Oldham coupling <u>OP-12A:</u> Ø12 Oldham coupling without adaptation flange

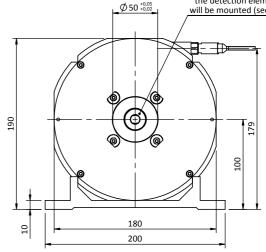


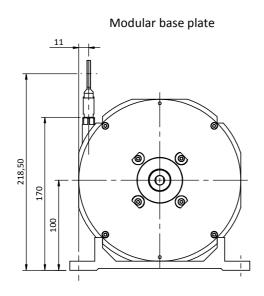


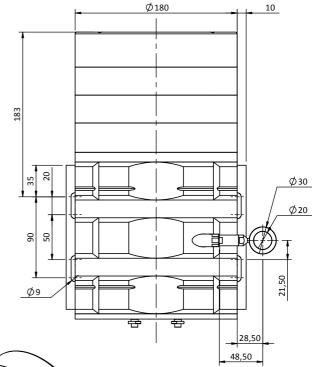
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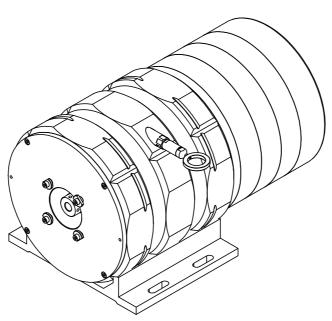
Oldham coupling adaptable to the detection element that will be mounted (see options)













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