

# CD60 potentiometric output – Measurement range 0 up to 1500 mm

## Specifications:

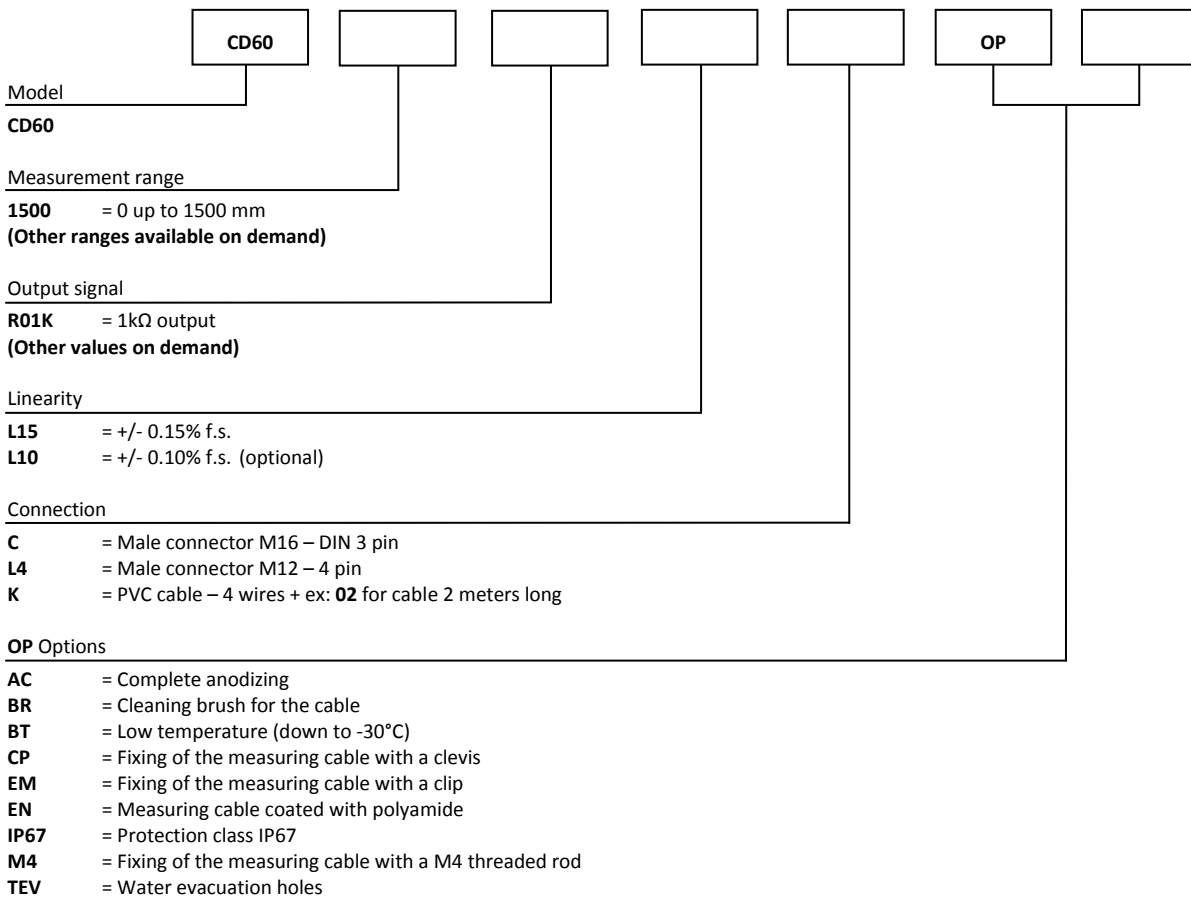
Measurement range	0 up to 1500 mm
Output signal	1k $\Omega$ potentiometer (other values on demand)
Resolution	Quasi infinite (depends on the operating system)
Material	Body and cover - Aluminium (RohS) Measuring cable – Stainless steel
Cable diameter	0,60 mm
Detection element	Multi-turn Hybrid potentiometer
Connection	Male connector M16 – DIN 3 pin Male connector M12 – 4 pin PVC cable – 4 wires
Standard linearity	+/- 0,15% f.s. +/- 0,10% f.s. (optional)
Protection class	IP54 (option IP67)
Max. Velocity	10 m/s
Max. Acceleration	20 m/s <sup>2</sup> (before cable deformation)
Weight	$\approx$ 1000 g
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
1500	$\approx$ 9,00 N	$\approx$ 12,00 N

## Ordering reference:



Reference example: **CD60-1500-R01K-L15-K02-OP-AC-EM**



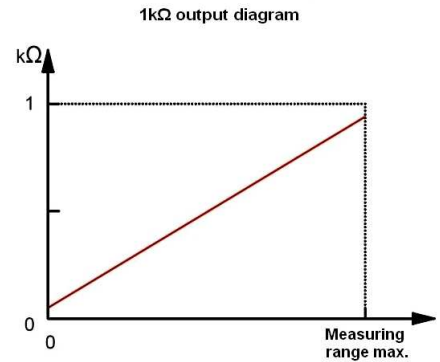
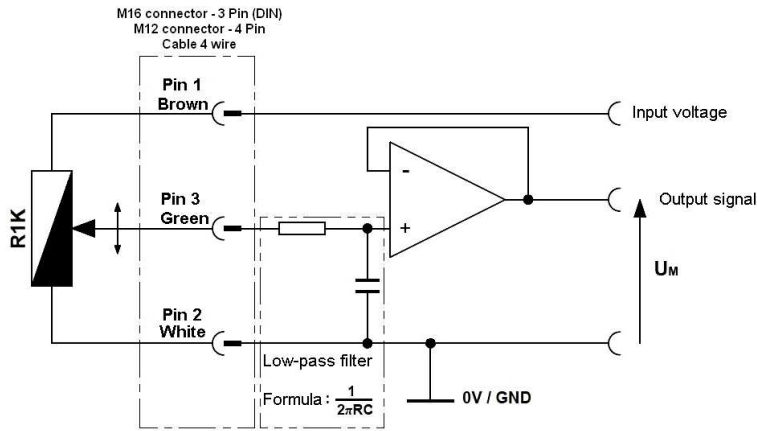
Tel : +33 (0)3 88 02 09 02 / Fax : +33 (0)3 88 02 09 03 / E-mail : info@ak-industries.com / Web : http://www.ak-industries.com

**Electrical characteristics :**

**Potentiometric version 1 kΩ :** (other values on demand)

Temperature drift ..... +/-50 ppm/°C

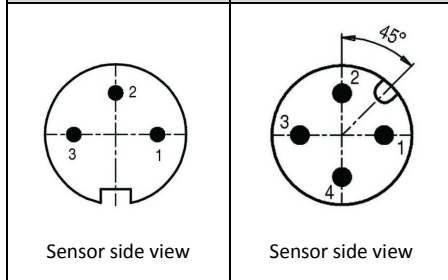
**Example of wiring diagram with input stage :**



To ensure a good linearity, wire the potentiometer as a voltage divider and never as a rheostat. The input resistance of the operating system must be very high (greater than 10MΩ)

**Connection :**

Male connector M16 3 pin (DIN)	Male connector M12 4 pin (DIN)	PVC cable 4 wire	R01K
1	1	Brown	Input voltage +
2	2	White	Input voltage GND
3	3	Green	Signal +

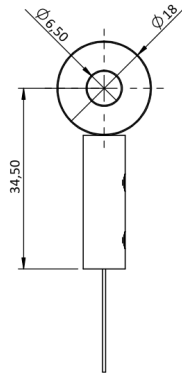


**Options :**

**Cable attachment with a lug :**

**Standard**

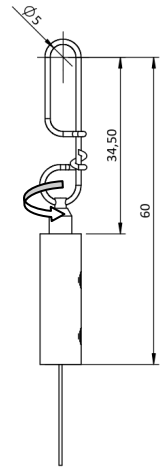
The attachment lug is fixed with a M6 screw or a clevis.



**Cable attachment with a clip :**

**OP-EM**

This fastening system allows a rotation about its axis.  
The clip is fixed with a M4 screw or a clevis.



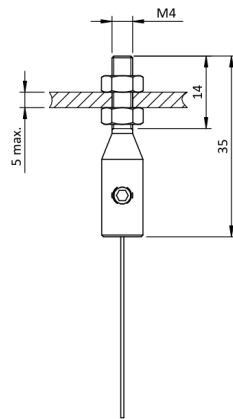
**Cable attachment fitted with a M4 threaded rod:**

**OP-M4**

The rod attachment uses a threaded rod with 2 nuts (provided).  
The required thickness of the plate does not exceed 5 mm.

**Caution**

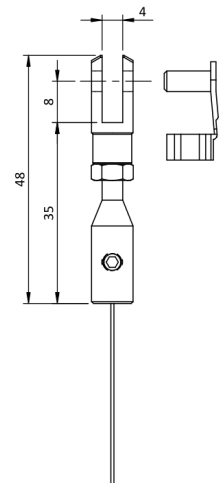
Never screw the threaded rod into a fixed nut, a twist of the measurement cable would damage it.



**Cable attachment with a clevis :**

**OP-CP**

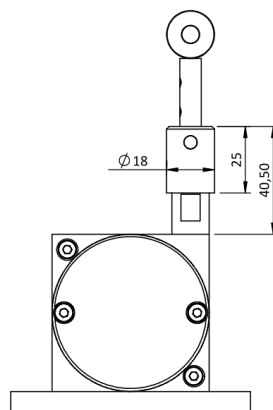
The attachment of the clevis is done using a pin (provided).



**Cable cleaning brush:**

**OP-BR**

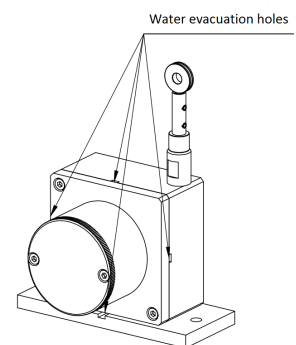
The cleaning brush wipes the cable in dusty or humid environments.



**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.



**Dimensional Drawing**

