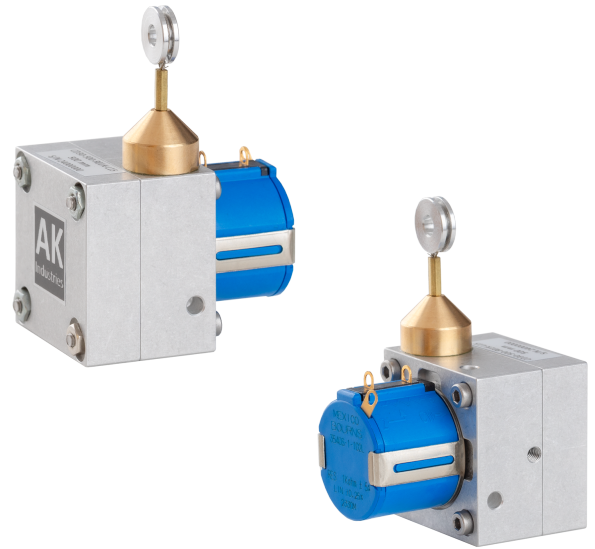


CD30 - COMPACT DRAW WIRE SENSOR – POTENTIOMETRIC OUTPUT MEASUREMENT RANGE UP TO 500 MM

SPECIFICATIONS

Measurement range	150 / 250 / 500 mm
Output signal	Potentiometer 1k Ω / 10k Ω
Resolution	Infinite (depends on the operating system)
Material	Body – Aluminum (RohS) Measuring cable – Stainless steel 316L
Cable diameter	0,45 mm
Detection element	Precision potentiometer
Connection	Solder terminals (potentiometer)
Linearity	up to +/-0.15% f.s
Protection class	IP50
Max. Velocity	10 m/s
Max. Acceleration	40 m/s ² (before cable deformation)
Weight	\approx 75 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
150	\approx 2,80 N	\approx 3,00 N
250	\approx 2,70 N	\approx 3,00 N
500	\approx 2,20 N	\approx 3,00 N

ORDERING REFERENCE

CD30 - 0500 - R01K - L15 - 02

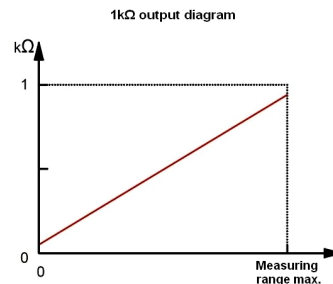
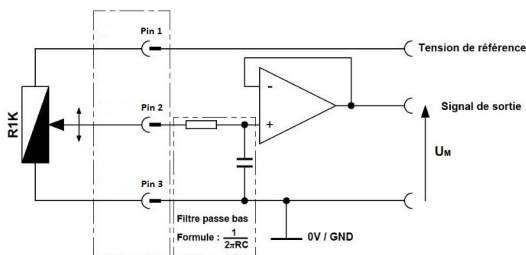
Model	CD30
Measurement range	0500
150	= 150 mm
250	= 250 mm
500	= 500 mm
Output signal	R01K
	= 1k Ω output
	R10K
	= 10k Ω output
	<i>Other potentiometric values available on demand</i>
Linearity	L15
	= +/- 0.15% f.s.
Fixing system	02
	= Fixing by flanges
	01
	= Fixing by M2.5 side threads
	03
	= Fixing on long nuts
	04
	= Fixing by bracket

ELECTRICAL CHARACTERISTICS

Potentiometric version 1 k Ω (other values available on demand)

Excitation voltage 32Vdc max. at 1k Ω
 Temperature drift +/-50 ppm/°C

Example of wiring diagram with input stage:

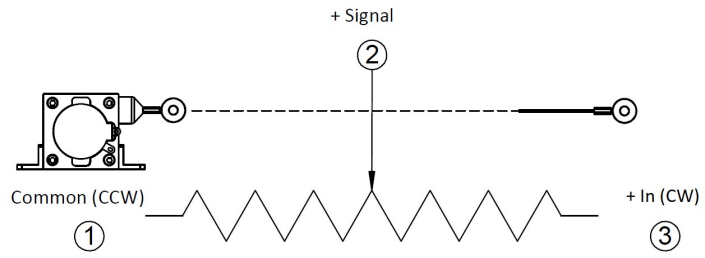
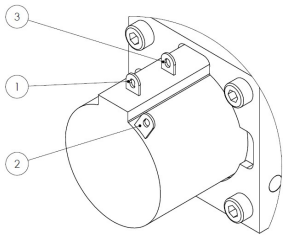


To guarantee good linearity, the potentiometer must be wired as a voltage divider and never as a rheostat.
 The input resistance of the operating system must be greater than 10M Ω .



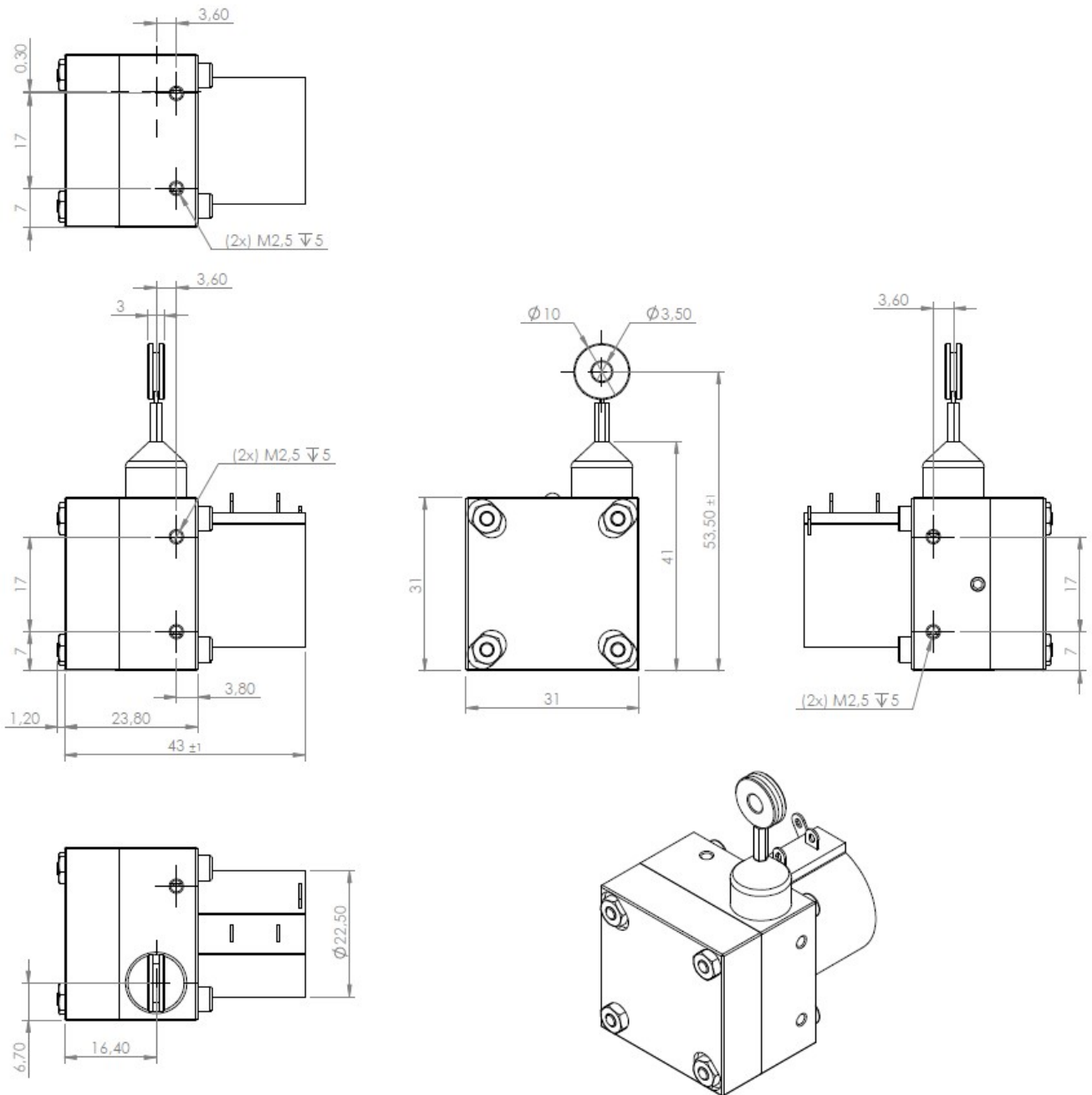
Tel : +33 (0)3 88 02 09 02 / Fax : +33 (0)3 88 02 09 03 / E-mail : info@ak-industries.com / Web : http://www.ak-industries.com

CONNECTION

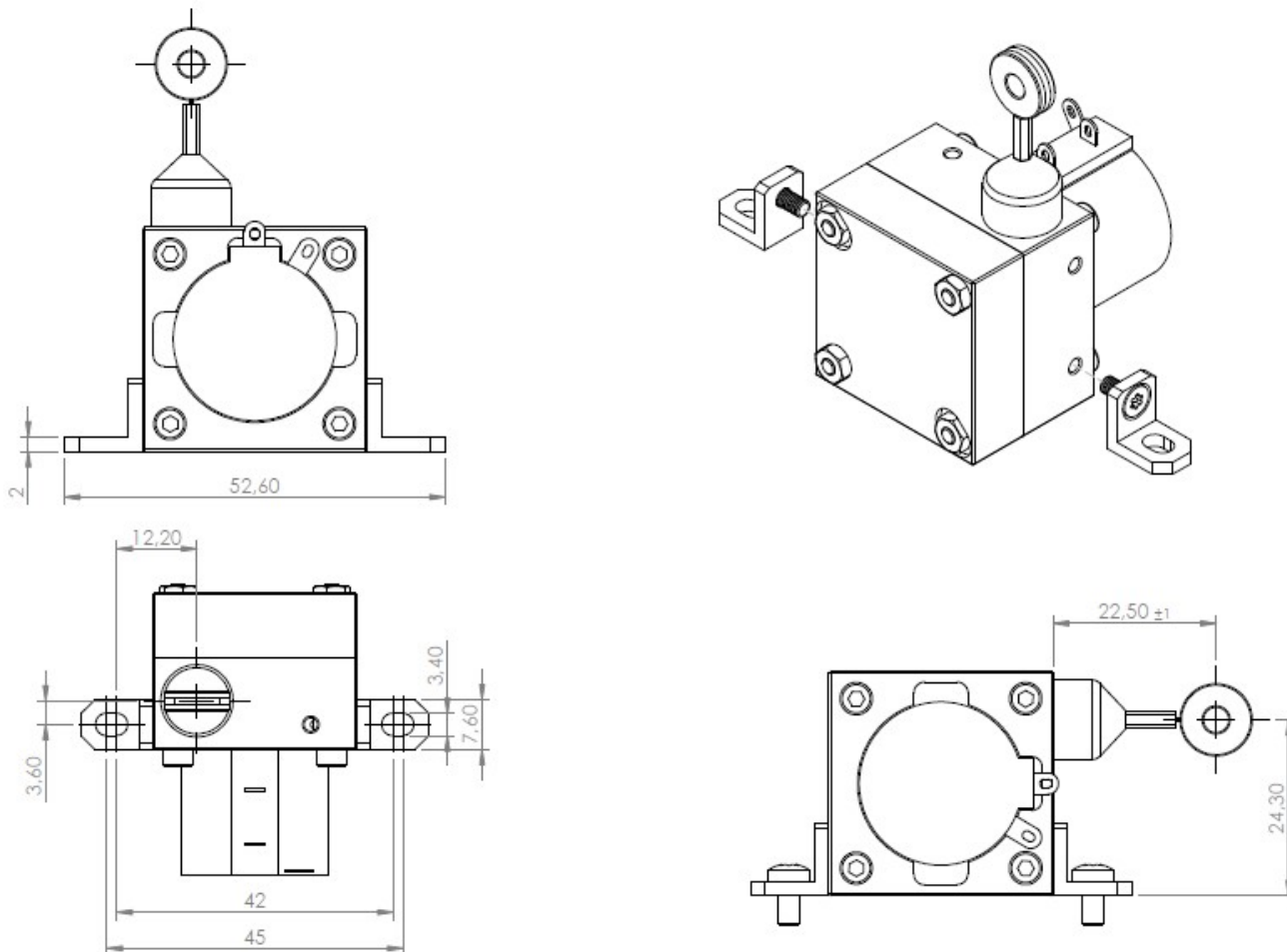


DIMENSIONAL DRAWING

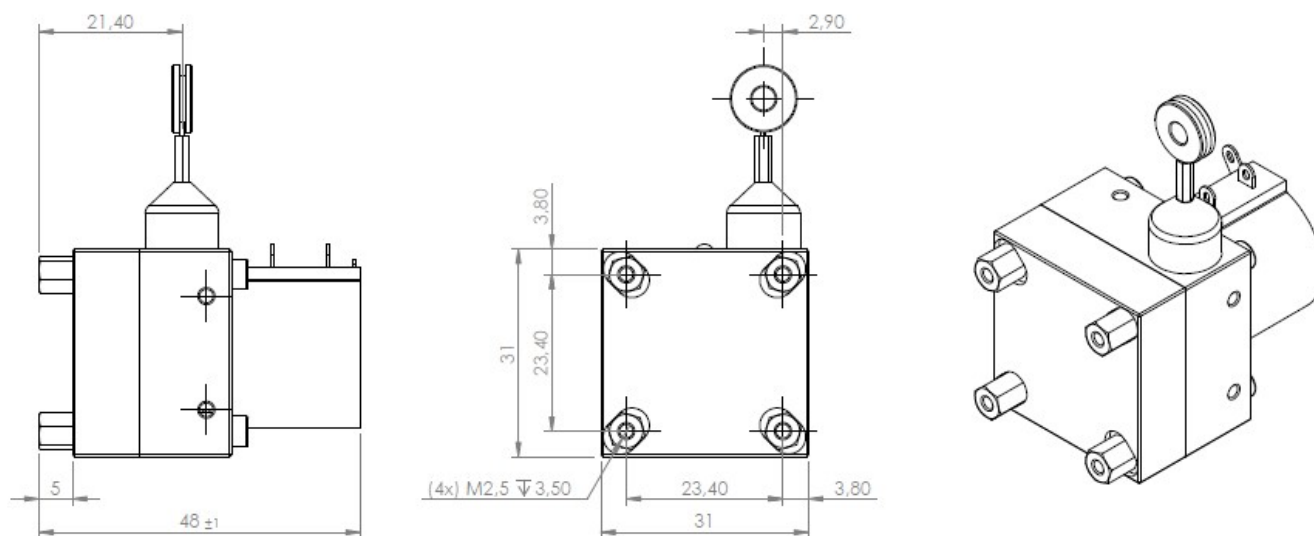
Fixing by M2.5 side threads (order code 01)



Fixing by flanges (order code 02)



Fixing on long nuts (order code 03)



Fixing by bracket (order code 04)

