

CD35 - COMPACT DRAW WIRE SENSOR – POTENTIOMETRIC OUTPUT

MEASUREMENT RANGE UP TO 750 MM

SPECIFICATIONS

Measurement range	750 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	≈ 90 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
750	≈ 2,00 N	≈ 2,80 N

ORDERING REFERENCE

	CD35	0750	R01K	L15	02
Model	CD35				
Measurement range	750	= 750 mm			
Output signal	R01K	= 1k Ω output			
	R10K	= 10k Ω output			
	<i>Other potentiometric values available on demand</i>				
Linearity	L25	= +/- 0.25% f.s.			
	L15	= +/- 0.15% f.s.			
Fixing system	01	= Fixing by M2.5 side threads			
	02	= Fixing by flanges			
	03	= Fixing on long nuts			
	04	= Fixing by bracket			

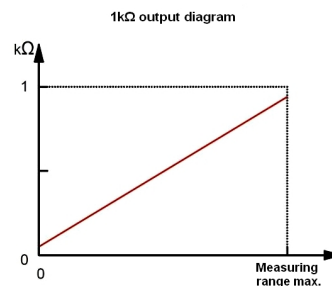
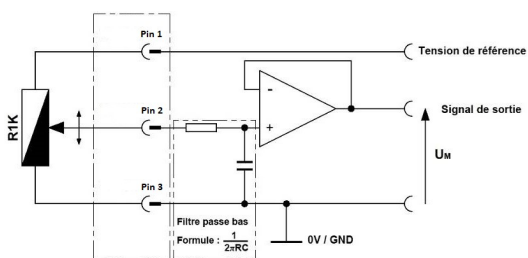
ELECTRICAL CHARACTERISTICS

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:

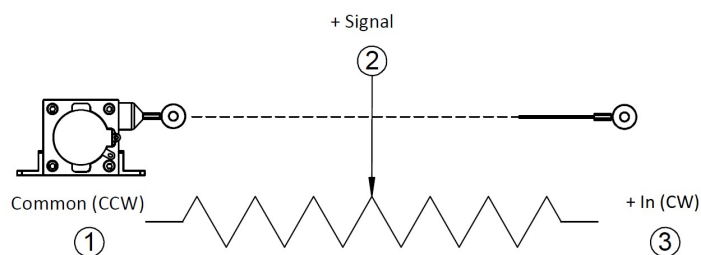
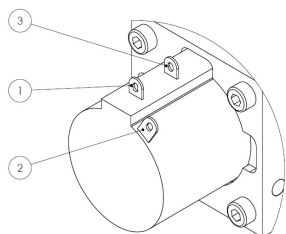


To guarantee good linearity, the potentiometer must be wired as a voltage divider and never as a rheostat.
The input resistance of the operating system must be greater than 10M Ω .



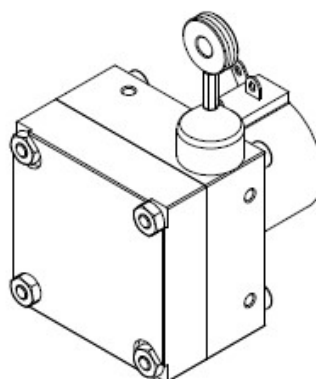
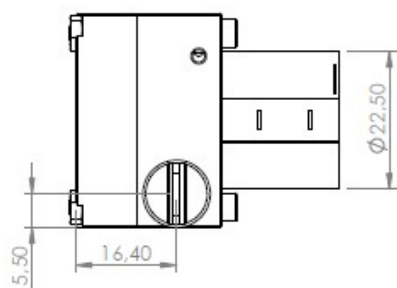
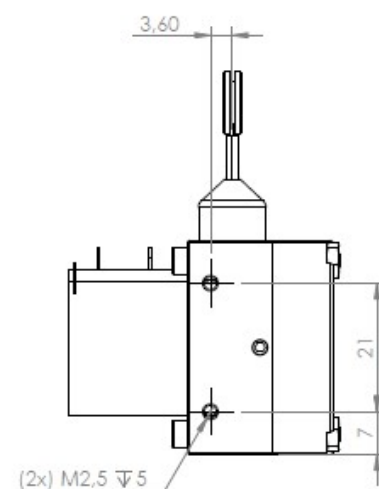
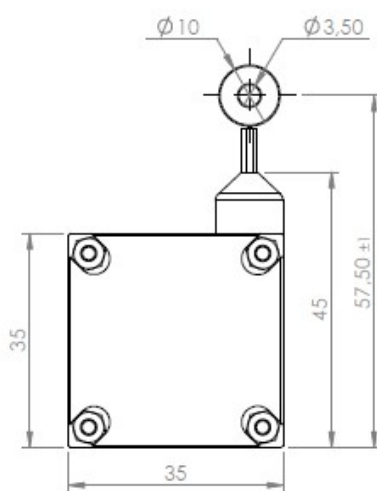
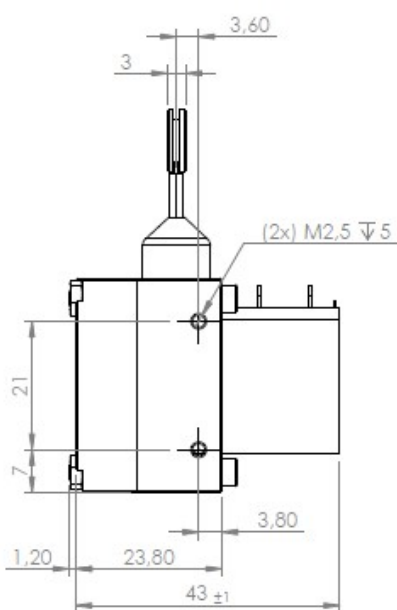
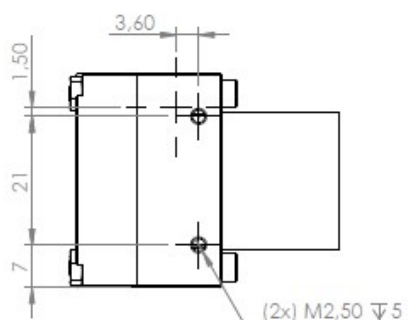
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CONNECTION



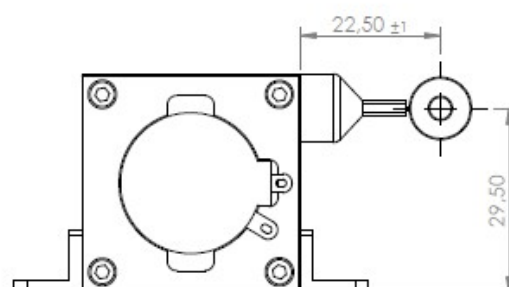
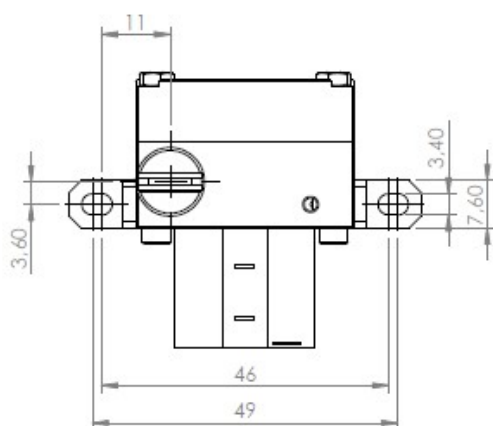
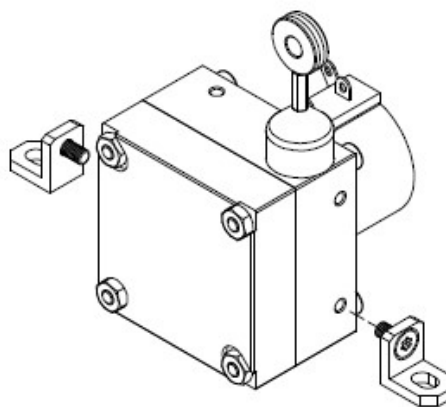
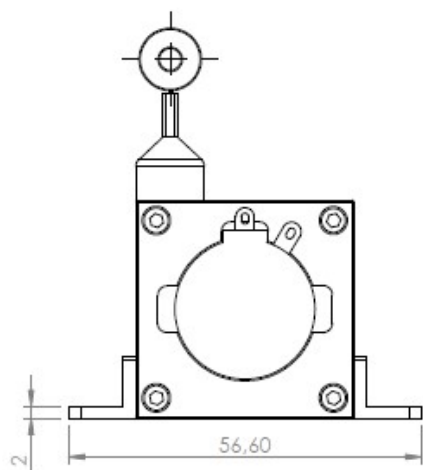
DIMENSIONAL DRAWING

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



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Fixing by flanges (order code 02)



Fixing on long nuts (order code 03)

