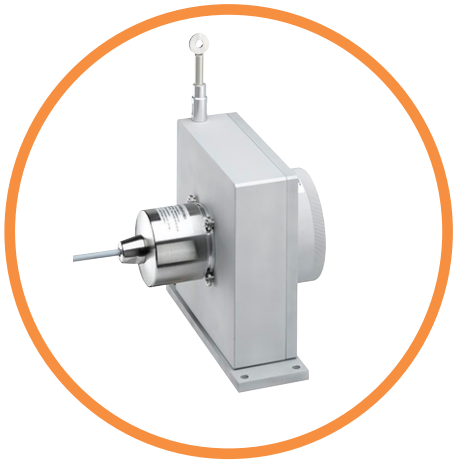
CD150

CD150 POTENTIOMETRIC OUTPUT – MEASUREMENT RANGE 0 UP TO 6000 MM

The CD150 Potentiometric is a Draw Wire sensor that utilizes a precision potentiometer output to indicate linear motion of the draw wire. Utilizing a spring loaded rotary cable real with a stainless steel measuring cable and an aluminum enclosure, this sensor is well suited to the industrial environments that it is intended for. Dimensions are approximately 180 X 190 X 220 mm and weight is ~ 3000 g.



Features

- Range up to 6000 mm
- Standard linearity of 0.15%
- Connector and cable output options available
- IP54 rated with IP67 option
- Built-in cable cleaning brush option available
- Well suited for dusty, hot or wet environments

SPECIFICATIONS

Measurement range	0 up to 6000 mm
Output signal	1kΩ (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	Precision 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	5 m/s² (before cable deformation)
Weight	≈ 3000 g
Operating temperature	-20° to +80°C
Storage temperature	-30° to +80°C

CABLE FORCES

Measurement range in mm	Min. pull-out force	Min. pull-out force
4000	≈ 11,00 N	≈ 13,50 N
6000	≈ 10,00 N	≈ 13,50 N

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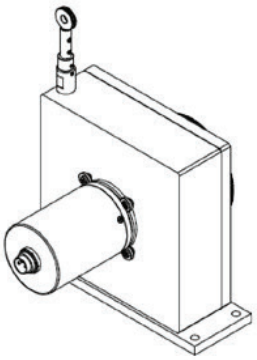
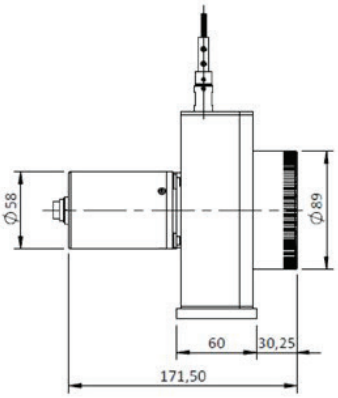
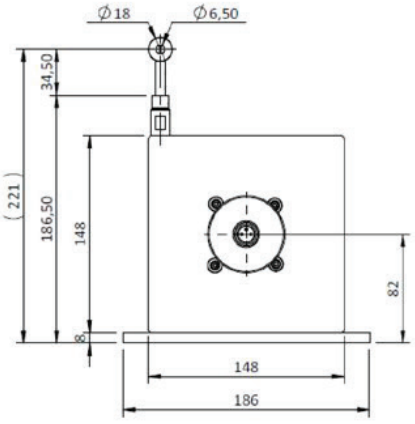
DIMENSIONS

All dimensions are in mm

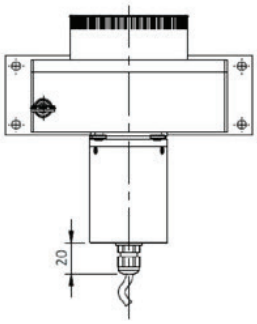
Measurement range up to 4000 mm



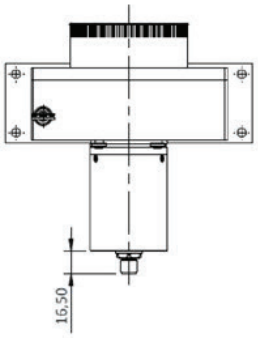




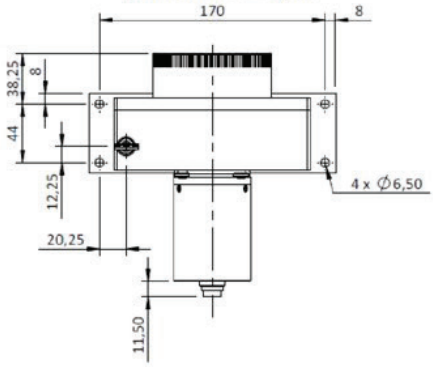
K connection
(PVC cable - 4 wires)



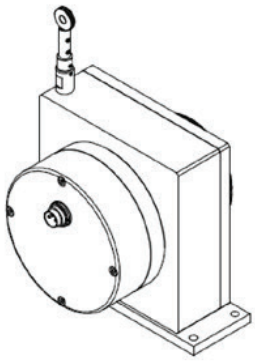
L4 connection
(connector M12 - 4 pin)

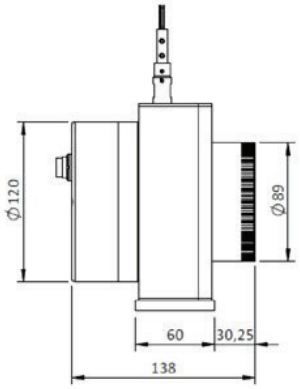


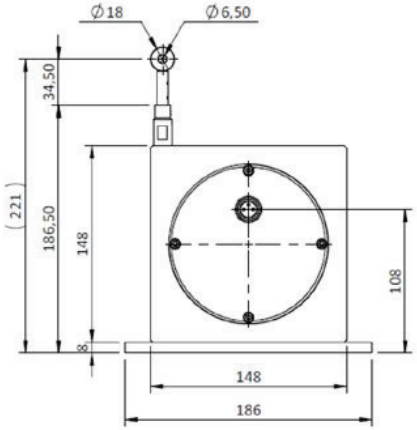
C connection
(Connector M16 - DIN 3 pin)



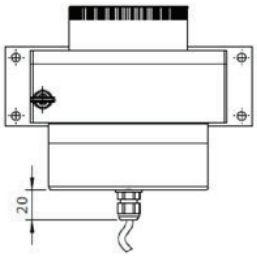
Measuring range greater than 4000 mm up to 6000 mm



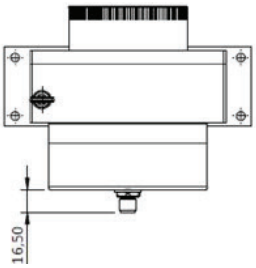




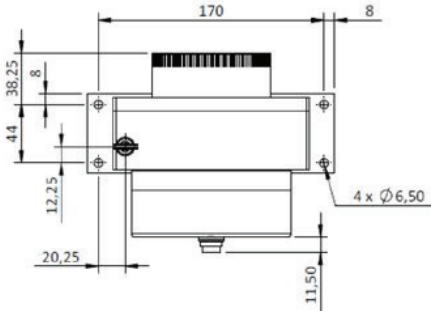
K connection
(PVC cable - 4 wires)



L4 connection
(connector M12 - 4 pin)



C connection
(Connector M16 - DIN 3 pin)



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ORDERING REFERENCE

Example: CD115-4000-R01K-L15-K02-OP-AC-M4

CD150 - **4000** - **R01K** - **L15** - **K02** - **OP** - **M4**

Model

CD150

Measurement range

4000 = 0 up to 4000 mm
6000 = 0 up to 6000 mm
(Other ranges available on demand)

Output signal

R01K = 1kΩ output
(Other values on demand)

Linearity

L15 = +/- 0.15% f.s.
L10 = +/- 0.10% f.s. (optional)

Connection

C = Male connector M16 - DIN 3 pin
L4 = Male connector M12 - 4 pin
K = PVC cable - 4 wires + ex: **02** for cable 2 meters long

OP Options

AC = Complete anodizing
BR = Cleaning brush for the cable
BT = Low temperature (down to -30°C)
CP = Fixing of the measuring cable with a clevis
IP67 = Protection class IP67
M4 = Fixing of the measuring cable with a M4 threaded rod
TEV = Water evacuation holes

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CE

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