

RTL

Linear Potentiometer

Long Stroke Series 30 - 1000 mm



1. TECHNICAL SPECIFICATIONS

Measurement stroke	30 - 1.000 mm
Resolution	Infinite
Repeatability	< 0.01 mm
Permissible applied voltage	28 VDC max.
Electrical connections	CH1: Hydraulic type, 4 pin connector output (standard) CN5A (M12) or CN5B (M16), 5 pin connector output (optional)
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Protection level	IP 65
Vibration	EN 60068-2-6 5-2000 Hz 200 m/s ² (20g) 2h 30min each axis (x,y,z)
Shock	EN 60068-2-2:2007 500 m/s ² (50g) 11ms. (x,y,z axis)
Resistance	5 kOhm: 30 - 600 mm 10 kOhm: 650 - 1.000 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended wiper current	<1 µA
Linearity	A: ±%0.5 (≤75 mm) B: ±%0.2 (100 - 125 mm) C: ±%0.1 (130 - 225 mm) D: ±%0.05 (≥250 mm)
Case dimensions	33 mm x 33 mm
Case material	Anodized aluminium
Rod material	Stainless steel AISI 303
Caps material	ABS plastic
Rod diameter	Ø6 mm
Mechanical fixing	Variable brackets
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



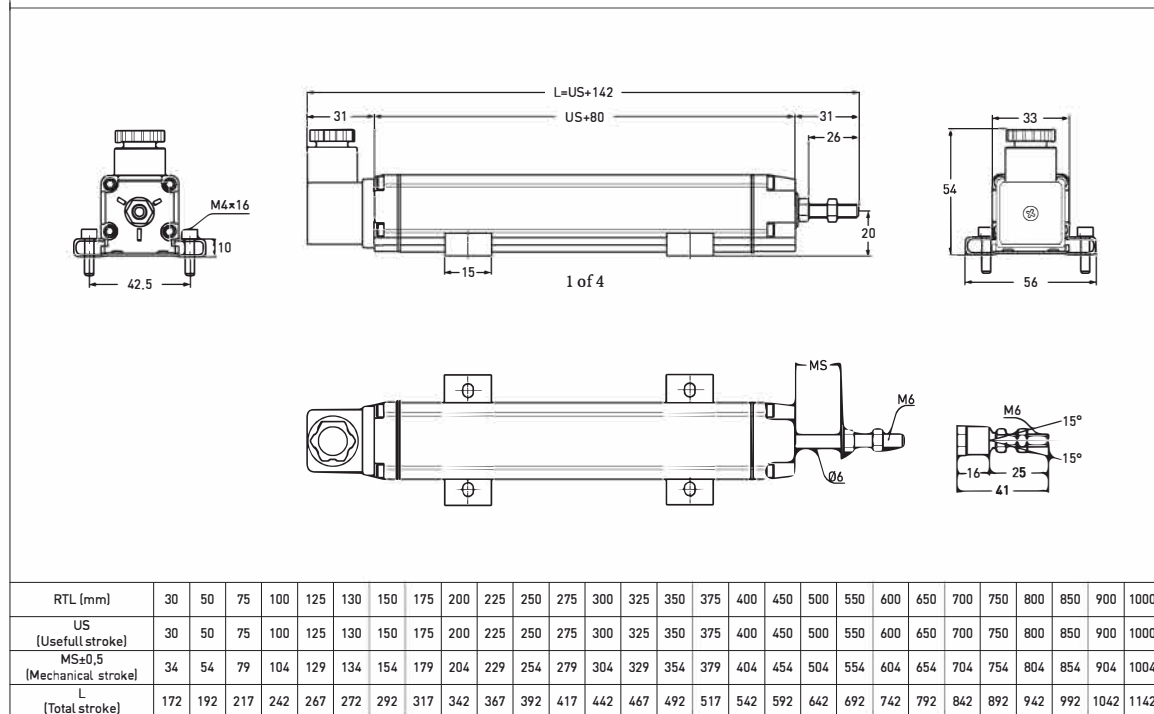
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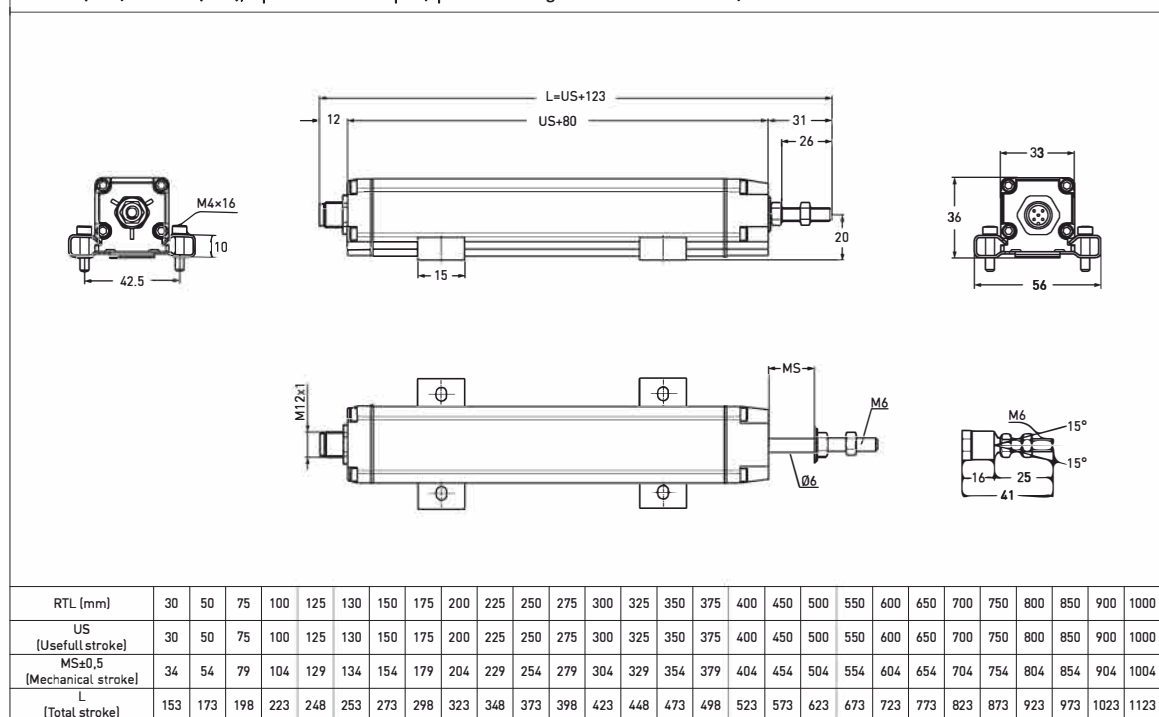
2.MECHANICAL SPECIFICATIONS



CH1: Hydraulic type, 4 pin connector output (standard, mating connector included)



CN5A (M12) or CN5B (M16), 5 pin connector output (optional - mating connector not included)



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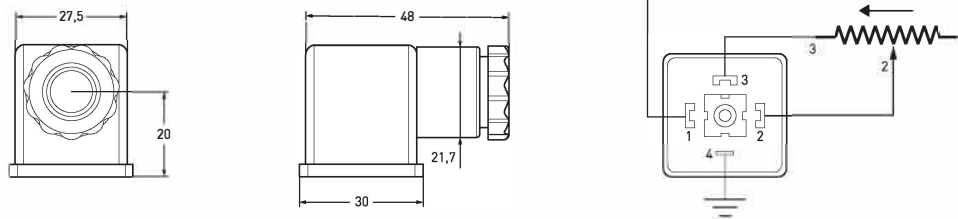
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3.CONNECTORS, CABLE AND BRACKET



CH1: Hydraulic type, 4 pin connector (standard - mating connector included)



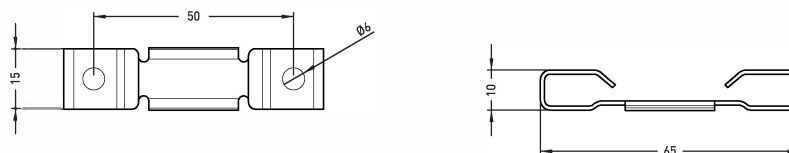
CN5A: 5 pin, M12 connector (optional - mating connector not included)



CN5B: 5 pin, M16 connector (optional - mating connector not included)



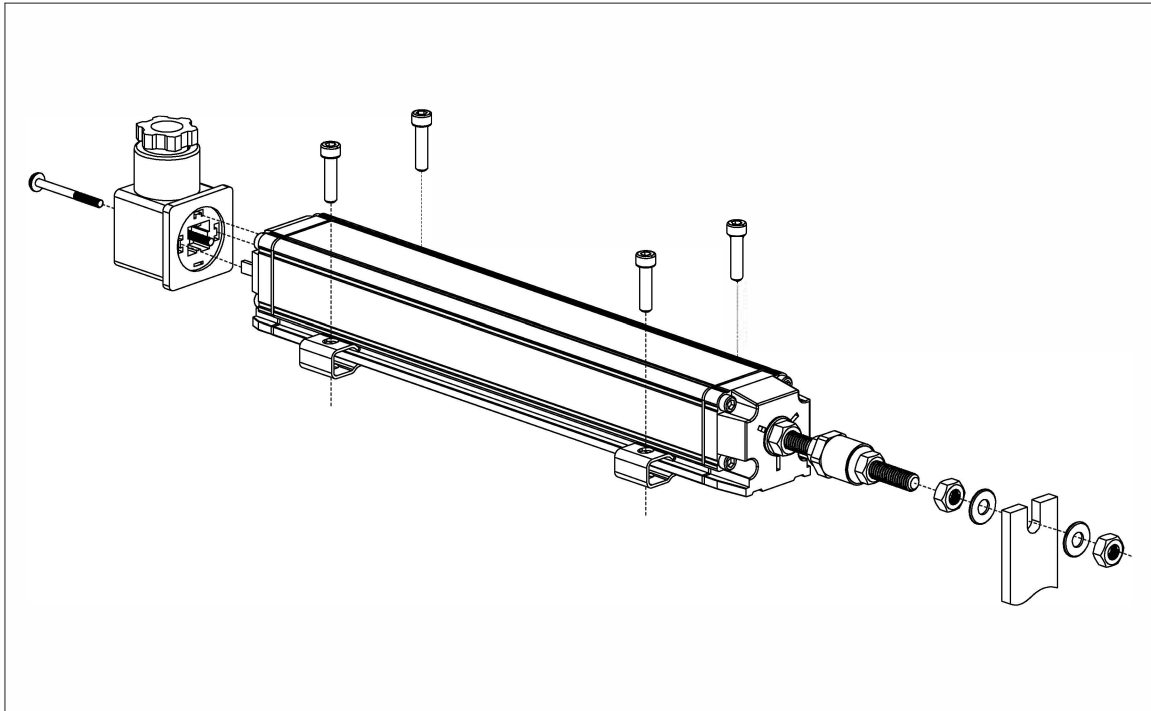
BR02 : Brackets - included



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4.ASSEMBLY



5.ORDERING PRODECURE

1	Model RTL: Linear Potentiometer Long Stroke Series
2	Measuring range 30 - 1.000 mm
3	Linearity A: ± 0.5 (≤ 75 mm) B: ± 0.2 (100 - 125 mm) C: ± 0.1 (130 - 225 mm) D: ± 0.05 (≥ 250 mm)
4	Resistance (kOhm) 5K: 5 kOhm (30 - 600 mm) 10K: 10 kOhm (650 - 1.000 mm)
5	Connector CH1: Hydraulic type, 4 pin connector (standard - mating connector included) CN5A: 5 pin, M12 connector (optional - mating connector not included) CN5B: 5 pin, M16 connector (optional - mating connector not included)

For example:

RTL	500	D	5K	CH1
1	2	3	4	5



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