

Datasheet

General features

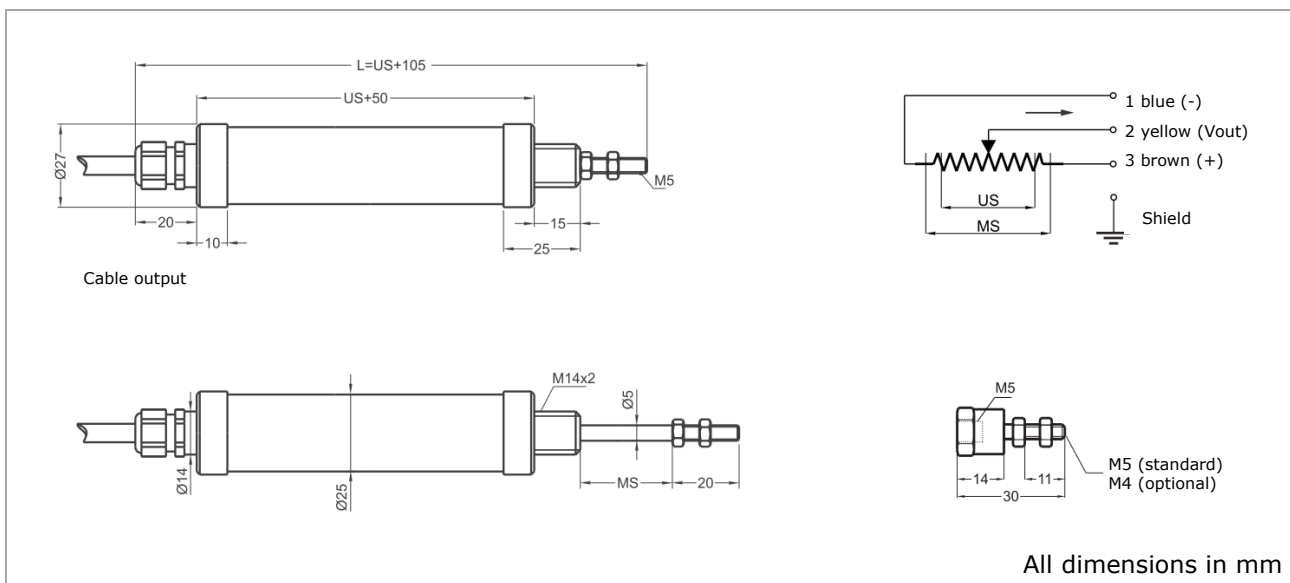
- Measuring range 25 to 400 mm
- Long mechanical life: 100 million movements
- Excellent repeatability: <0.01 mm
- Infinitely variable resolution
- Resistance:
2 kOhm 25 ... 50 mm, 5 kOhm: 50 ... 400 mm



Technical specifications

Measurement stroke	25 to 400 mm
Linearity	±%0.05 (>200 mm), ±%0.1 (130 - 200 mm), ±%0.2 (75 - 129 mm), ±%0.5 (<75 mm)
Repeatability	<0.01 mm
Resolution	Infinitely variable
Resistance	2 kOhm 25 ... 50 mm, 5 kOhm: 50 ... 400 mm
Resistance tolerance	±%20
Load resistance	100 kOhm min.
Recommended consumption current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	1 meter cable (standard)
Displacement speed	<5 m/s
Mechanical life	100 million movement
Case dimensions	∅25 mm
Case material	Anodized aluminium
Rod diameter	∅5 mm
Rod material	Stainless steel
IP rating	IP66
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Dimensions



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Measuring range

WLP-C-MRF1 (mm)	25	50	75	100	125	150	175	200	250	300	350	400
US (Useful Stroke)	25	50	75	100	125	150	175	200	250	300	350	400
MS (Mechanical Stroke)	28	53	78	103	128	153	178	203	253	303	353	403
L (Total Length)	130	155	180	205	230	265	280	305	355	405	455	505

Ordering example

Type	WLP-C - MRF1 - 175 - D - 5K - 1M
Category	M = medium; Ohm (resistance)
Type of construction	R = round
Location of electrical connection	F = frontal
Connection type	1 = cable
Measurement stroke (mm)	25 ... 400 mm (see table)
Linearity (%)	A = ±%0.5 (<75 mm) B = ±%0.2 (75 - 129 mm) C = ±%0.1 (130 - 200 mm) D = ±%0.05 (>200 mm)
Resistance (kOhm)	2K = 2 kOhm 5K = 5 kOhm
Electrical connection	1M = 1 meter cable (standard), open cable end 1M5 = 1.5 meter cable (optional), open cable end 2M5 = 2.5 meter cable (optional), open cable end

Without prior notice, the products may be subject to modifications that the Manufacturer reserves to introduce as deemed necessary for their improvement.