

# Precision Linear Potentiometer LL30 V2

Standard version



The precision linear potentiometers type LL30 provide a 30 x 30mm aluminium housing and offer protection class IP60 in the standard version. Optionally protection class IP65 is possible. The smooth running is ensured by permaglide sliding bearings.

The standard version is supplied with 4 clamping claws.

### Mechanical Data

- 1.1 Housing..... : aluminium
- 1.2 Pushrod..... : stainless steel
- 1.3 Bearing..... : permaglide sliding bearing
- 1.4 Resistor element..... : conductive plastic
- 1.5 Slider / wiper tap..... : noble metal, multiturn
- 1.6 Protection class..... : IP 60
- 1.7 Type of connection..... : cable connection, 3m
- 1.8 Mounting element..... : clamping claws
- 1.9 Functional path..... : 30...500 mm
- 1.10 Adjusting speed..... : 1 m / sec.
- 1.11 Lifetime..... : 1 x 10<sup>6</sup> m path

### Options

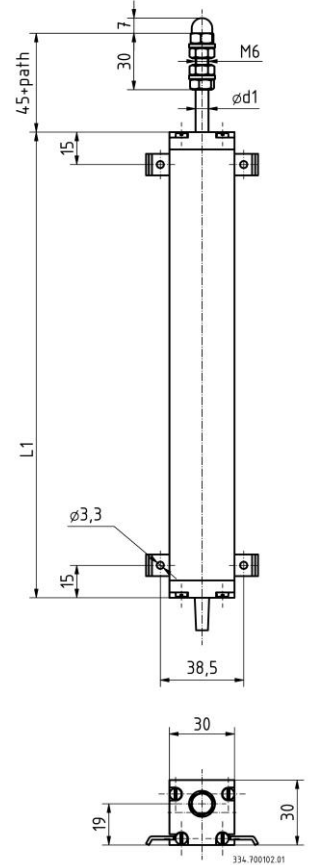
- Pushrod: special length
- Protection class IP65
- Plug connection

### Accessories

- Adapter plate
- Extended connection cable
- Swivel head

### Other versions

- Integrated measuring transducer 0/4...20 mA or 0...10 VDC (housing length L1 = L1 + 50)
- Linear potentiometer with spring function



### Electrical Data

- 2.1 Resistance values, standard.... : 1, 2, 5, 10 K-Ohm
- 2.2 Max. resistance value..... : see table
- 2.3 Resistance tolerance..... : ± 20%
- 2.4 Linearity tolerance..... : ± 2%
- 2.5 Insulation resistance..... : 20 M-Ohm
- 2.6 Test voltage..... : 500 V, 50 Hz
- 2.7 Operating voltage..... : max. 50 V
- 2.8 Total load..... : max. 1 Watt
- 2.9 Slider load current..... : 1 mA (max. lifetime)
- 2.10 Temperature range..... : -50°C to +100°C
- 2.11 Temperature coefficient..... : 500 ppm/°C

Type	path in mm		Ø d1 in mm	max KΩ	L1 in mm								
	electr. +0,8mm	mechan. ±3mm			cable	plug	cable Tfa	plug Tfa	cable Tfi	plug Tfi	cable Rfi	plug Rfi	
LL30/ 30 V2	30	40	6	25	95	165	95	165					
LL30/ 50 V2	50	60	6	40	115	165	115	165	165	215	165	215	
LL30/100 V2	100	110	6	80	165	215	165	215	215	265	215	265	
LL30/150 V2	150	160	6	120	215	265	215	265	265	315	165	315	
LL30/200 V2	200	210	6	160	265	315	265	315			315	365	
LL30/250 V2	250	260	6	200	315	365	315	365			365	415	

Paths in excess of 500mm only in sensor version (0/4...20 mA, 0...10 VDC).

Option
Return spring inside (Rfi) DL30
Construction set calliper spring inside (Tfi) DL30
Construction set calliper spring outside (Tfa) DL30
Construction set plug DL30

### Scope of delivery includes

- Cap nut 1 pcs 101577
- Hexagon nut 3 pcs 101578
- U-plate 2 pcs 101541

### Mounting

- 4 pieces clamping claws article# 104642 ( scope of delivery )

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