

LINEAR MOTION POTENTIOMETERS Series PT • PT2S

- 25 to 150 mm
- Excellent linearity
- Infinite resolution

- Easy mounting method
- M12 Connector
- IP64 protection degree

PT	PT2S
Strokes: 25 to 150 mm • rod Ø 5 mm • axial connector	Strokes: 25 to 150 mm • rod Ø 5 mm • radial connector • two ball joints Ø 5 mm

ELECTRICAL & OPERATING SPECIFICATIONS Series			PT		PT2S	
■ Sensor	Conductive plastic resistive element					
Resistive value	5 KOhm ±20% Stroke 25 mm: 1 KOhm ±20% Optional 5 KOhm					I 5 KOhm
Strokes mm	25 •		50 •	75 •	1	00 • 150
Linearity	±0.2%	±0	.15%	±0.1%		±0.075%
 Resolution 	Infinite					
 Permissible applied voltage 	28 Vdc					
Load resistance	1 MOhm min.					
 Recommended cursor current 	< 1 µA					
Mechanical life	100 milion cycles					
Ripetibility	<0.01 mm					
 Dissipation at 40°C 	3 W					
 Insulation resistance 	>100 MOhm at 500 Vdc					
Connections	4-pin M12 male connector					
Connector position		Axial				Radial

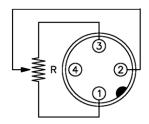
MECHANICAL & ENVIRONMENTAL SPECIFICA Series					
Dimensions	See the drawing				
 Materials: housing 	Anodised aluminium with glass-filled nylon flanges				
rod	Stainless steel on self-lubricating bearings – free rotation				
■ Rod Ø	5 mm				
■ Fixing	Freely movable clamping brackets or ball joints				
Stem max linear speed	5 m/sec				
Sliding friction	0.1 Kg – with return spring: 0.5 Kg				
■ Vibration resistance (10÷2000 Hz)	15 g				
Shock resistance (11 ms)	50 g				
Operating temperature	-20 ÷ 80°C				
Stocking temperature	-30 ÷ 90°C				
Protection degree	IP64				

AVAILABLE STROKES

			Series PT	•	PT2S					
NOMINAL STROKE mm	25	•	50	•	75	•	100	•	150	
ELECTRICAL STROKE Nominal stroke + 0.5 mm										
MECHANICAL STROKE			Nominal strok	ke + 2	? mm					

CONNECTIONS

The electrical connection is granted by means of 4-pin M12 male connector. Flying part not included.

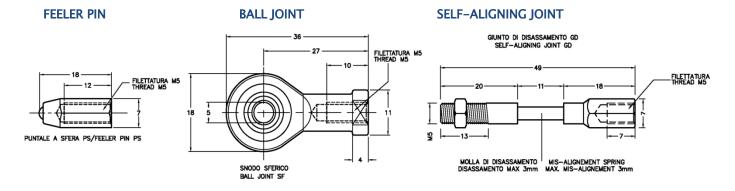


PIN 1 resistenza 0 Ohm con stelo inserito resistance 0 Ohm with rod in

MOUNTING & OPTIONAL FITTINGS

The potentiometers are easily fastened by means of the provided **brackets**, which can be placed **freely along the body**. **Ball joints and self-aligning articulated joints** can be used **for air-fixing**, allowing to compensate mounting mis-alignments.

The potentiometer series **PT** can be provided with **feeler pin** and **return spring** (for strokes up to 100 mm) for applications as comparator.

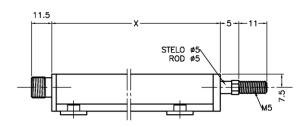


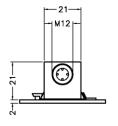
REF. M1040/ M1041/M1039

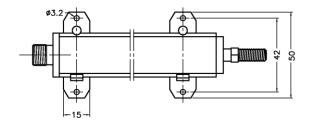
ORDERING INFORMATION

PT **50** 5K **GD** STROKE RESISTANCE VALUE **FITTINGS TYPE** PΤ 25 25 mm 1K Resistenza 1KOhm* (Type PT) 50 Resistenza 5KOhm PT2S MR Return spring (strokes up to 100 mm) 50 mm *Sroke 25 mm SF Ball joint 75 75 mm GD Self-aligning joint 100 100 mm PS Feeler pin 150 150 mm

Series PT Ref M2172V

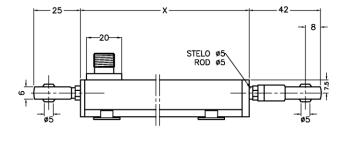


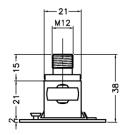


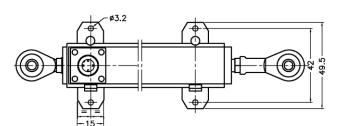


CORSA NOMINALE STROKE	x
25	74
50	99
75	124
100	149
150	199

Series PT2S Ref M2173V







CORSA NOMINALE STROKE	х
25	74
50	99
75	124
100	149
150	199

REFERENCES

Further information at:

Linear Potentiometers

https://www.elap.it/linear-potentiometers/

Potentiometer PT

https://www.elap.it/linear-potentiometers/pt-series/

Potentiometer PT2S

https://www.elap.it/linear-potentiometers/pt2s-series/







Linear Potentiometers

Potentiometer PT

Potentiometer PT2S



Potentiometers series PT/PT2S