

LINEAR MOTION POTENTIOMETERS Series PR · PR2S

- 25 to 150 mm
- Round section
- Infinite resolution

- Easy mounting method
- Several fittings
- IP64 protection degree

PR	PR2S
Strokes: 25 to 150 mm	Strokes: 25 to 150 mm
• rod Ø 5 mm	• rod Ø 5 mm
 radial connector 	 radial connector
	 two ball joints Ø 5 mm

ELECTRICAL & OPERATING SPECIFICATIONS					
Series		PR	• F	PR2S	
 Sensor 	Conductive plastic resistive element				
Popietivo voluo	5 KOhm ±20%				
		Stroke 25 mm: 1	KOhm ±20% (Optional 5 KOhn	n
 Strokes mm 	25 •	50 •	75 •	100 •	150
 Linearity 	±0.2%	±0.15%	±0.1%	±0.0	75%
 Resolution 	Infinite				
 Permissible applied voltage 	28 Vdc				
 Load resistance 	1 MOhm min.				
 Recommended cursor current 			< 1 µA		
 Mechanical life 		1	00 milion cycles	6	
 Ripetibility 			<0.01 mm		
 Dissipation at 40°C 	3 W				
 Insulation resistance 	>100 MOhm at 500 Vdc				
 Connections 	4-pin connector form C equipped with female connector			ector	
 Connector position 		Radial		Radial	

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS				
Series	PR • PR2S			
 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	IP65			

AVAILABLE STROKES

		Series PR •	PR2S			
NOMINAL STROKE mm	25 •	50 •	75	•	100 •	150
ELECTRICAL STROKE		Nominal stroke + ().5 mm			
MECHANICAL STROKE		Nominal stroke + 2	2 mm			

CONNECTIONS

The electrical connection is granted by means of 4-pin connector form C provided with female connector.









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

24

Male fixed connector

MOUNTING & OPTIONAL FITTINGS

The potentiometers are easily fastened by means of the provided **brackets**, which can be placed **freely along the body** or, for the type **PR**, by means of the front thread, with the fxing nut, which can be supplied on request. The series **PR2S** is provided with ball joints at both ends.

Ball joints and self-aligning articulated joints can be used for air-fixing, allowing to compensate mounting misalignments. They are also available in option for the type PR. The potentiometer series PR can be provided with feeler pin.





Dado filettato M20x1.5

Fixing bracket

Fixing nut M20x1.5



RIF. M1040/ M1041/M1039

ORDERING INFORMATION





Series PR









CORSA NOMINALE NOMINAL STROKE	"L" = LUNGHEZZA CORPO "L" = BODY LENGHT
25	91
50	116
75	141
100	166
150	216

Series PR2S

Ref M1374VB



Filetto M20x1.5 Thread M20x1.5



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REFERENCES

Further information at:

Linear Potentiometers

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

Potentiometer PR https://www.elap.it/linear-potentiometers/pr-series/

Potentiometer PR2S https://www.elap.it/linear-potentiometers/pr2s-series/







Linear Potentiometers

Potentiometers PR Potentiometers PR2S



Potentiometers series PR/PR2S and PM/PM2S

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