PM	PM2S	

LINEAR MOTION POTENTIOMETERS Series PM · PM2S

- 25 to 150 mm
- Excellent linearity
- Infinite resolution

- Easy mounting method
- Several fittings
- IP64 protection degree

РМ	PM2S
Strokes: 25 to 150 mm • rod Ø 5 mm	Strokes: 25 to 150 mm • rod Ø 5 mm
axial connector	 radial connector two ball joints Ø 5 mm

ELECTRICAL & OPERATING SPECIFICATIONS		514			
Series		PM		PM2S	
 Sensor 		Conductiv	e plastic resisti	ve element	
Resistive value	5 KOhm ±20% Stroke 25 mm: 1 KOhm ±20% Optional 5 KOhm				
 Strokes mm 	25 •	50 •	75 •	100 •	150
 Linearity 	±0.2%	±0.15%	±0.1%	±0.07	75%
 Resolution 			Infinite		
 Permissible applied voltage 			28 Vdc		
Load resistance	1 MOhm min.				
 Recommended cursor current 	< 1 µA				
 Mechanical life 		1	00 milion cycle	S	
 Ripetibility 			<0.01 mm		
 Dissipation at 40°C 			3 W		
 Insulation resistance 		>10	0 MOhm at 500) Vdc	
Connections	Connector DIN EN61984 (VDE 0627) provided with female angled orientable connector			r	
Connector position		Axial		Radial	

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS				
Series	PM • PM2S			
 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			

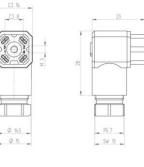
AVAILABLE STROKES

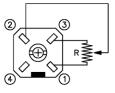
		Series PM •	PM2S		
NOMINAL STROKE mm	25 •	50 •	75 •	100 •	150
ELECTRICAL STROKE	Nominal stroke + 0.5 mm				
MECHANICAL STROKE	Nominal stroke + 2 mm				

CONNECTIONS

The electrical connection is granted by means of 4-pin connector type DIN EN61984 (VDE 0627) provided with female connector orientable in four positions.







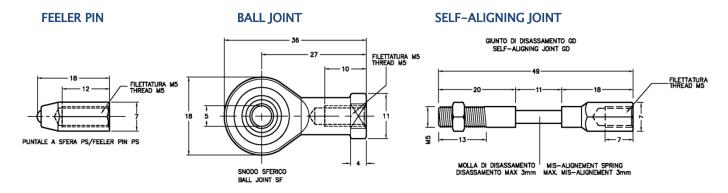
PIN 1 resistenza 0 Ohm con stelo inserito resistance 0 Ohm with rod in

Male fixed connector

MOUNTING & OPTIONAL FITTINGS

Female flying connector

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 **PM** can be provided with **feeler pin** and **in- or out return spring** (for strokes up to 100 mm) for applications as comparator.



REF. M1040/ M1041/M1039

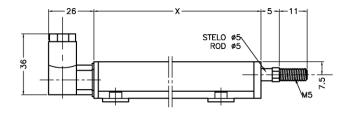
ORDERING INFORMATION

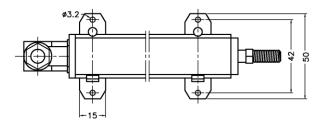


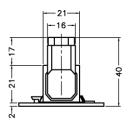


POTENTIOMETER PM WITH FEELER PIN

Ref M0772AV



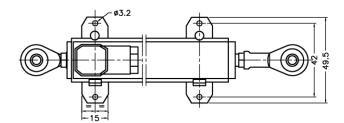


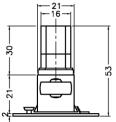


CORSA NOMINALE STROKE	x
25	74
50	99
75	124
100	149
150	199

Note: Connettore volante orientabile in 4 posizioni. The flying connector can be oriented in four positions.

Series PM2S





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

Note: Connettore volante orientabile in 4 posizioni. The flying connector can be oriented in four positions.

Ref M1017

REFERENCES

Further information at:

Linear Potentiometers

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

Potentiometer **PM** <u>https://www.elap.it/linear-potentiometers/pm-series/</u>

Potentiometer **PM2S** https://www.elap.it/linear-potentiometers/pm2s-series/







Linear Potentiometers

Potentiometer PM

Potentiometer PM2S



Potentiometers series PR/PR2S and PM/PM2S

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