

Product discontinued! Replacement requirement on request.

Industrial-Grade Potentiometers

Series IPS6000



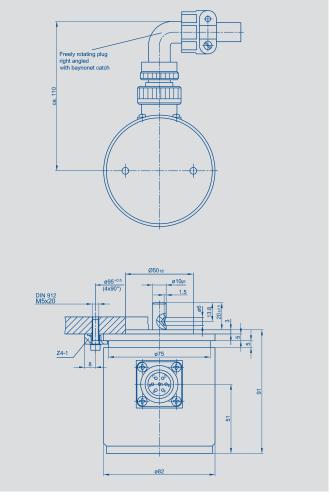
Special features

- excellent linearity standard ± 0.1 %
- long life 100 x 10⁶ movements typ.
- mechanical continuous rotation
- extremely robust industrialgrade construction
- protection class IP 67

Using this potentiometer a maximum angular rotation of 355° can be converted into a voltage proportional to the angle of rotation, through the medium of a conductive plastic potentiometer.

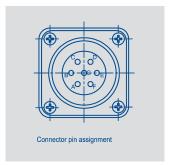
This special "heavy-duty" version of our industrial potentiometers can be used successfully in the most demanding applications or environmental condutions. Simply yet robustly built, these units are suitable for use in all manner of industrial applications and machinery manufacturing. The cast housing is watertight; sealing is achieved through the use of a stepped bush whilst electrical connections are made via a plug and sokket mounted on the side of the unit.

Special versions with different electrical travels and shaft dimensions are available.









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Included in delivery

4 mounting clamps Z4-1, 1 corner plug Cannon No. CA 08 COM-E-16S-1S-B, 1 anti-kink sleeve

Recommended accessories

Spring loaded coupling, Z 110 G10 (backlash-free), Process-controlled indicators MAP... with display, Signal conditioner MUP.../ MUK ... for standardized output signals

Important

All the values given in this data sheet for linearity, lifetime and temperature coefficient in the voltage dividing mode are quoted for the device operating with the wiper voltage driving on operational amplifier working as a voltage follower, where virtually no load is applied to the wiper ($l_e \le 1~\mu A$).

Mechanical Data		
Dimensions	see drawing	
Mounting	with 4 clamps Z 4-1	
Mechanical travel	360, continuous	۰
Permitted shaft loading axial and radial) static or dynamic force	300	N
Starting torque	<10	Ncm
Maximum operational speed	2 000	min ⁻¹
Weight	approx. 1200	g
Electrical Data		
Actual electrical travel	355 ±2	٥
Nominal resistance	5	kΩ
Resistance tolerance	±20	%
ndependent linearity	±0.1 (0.05 on request)	%
Repeatability	0.002 (≙ 0.007°)	%
Effective temperature coefficient of the output-to-applied voltage ratio	typical 5	ppm/K
Max. permissible applied voltage	42	V
Max. wiper current in case of malfunction	10	mA
Recommended operating wiper current	≤1	μΑ
nsulation resistance 500 VDC, 1 bar, 2 s)	≥ 10	ΜΩ
Dielectric strength 50 Hz, 2 s, 1 bar, 500 VAC)	≤ 100	μА
Environmental Data		
Temperature range	-40+100	°C
Vibration	52000 A _{max} = 0.75 a _{max} = 20	Hz mm g
Shock	50 11	g ms
Life	100 x 10 ⁶	movem
Protection class	IP 67 (DIN 400 50 / IEC 529)	
Order designations		
Гуре	Art.no.	
PS6501 A502	010061	

 \pm 0.3%, R= 2.5 k Ω \pm 20%