







MIDORI's the most popular potentiometer CP-45F



Concept	High Accuracy ×	High Durability ×	Many Options
Future	Linearity±0.1%FS ⇒ Good for precision control	Rotational Life 50 Mil. Rev. ⇒ It can be used long period	2 Gang type, with Center Tap, etc. ⇒ Wide type selection for many applications

CP-45F series line-up~ Many types of selection

<u>Standard type</u>  Avail. 2 gang type	<u>Multi-turn type</u>  Gear Ratio : 24/35/60/100	<u>Water Drip Proof type</u>  IP rating: IP65	<u>Wire Extension Type</u>  Stroke : Up to 2000mm
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MAIN APPLICATIONS

Market	User	Installed	Application
Converting	A Film Manufacturing Equipment maker	Winding/Rewinding device	Dancer roll control
Material handing	A Material handling maker	AGV	Tire steering angle detecting
Marine equipment	A Marine Equipment make	Automatic steering device	Steering Angle detecting
Industrial machinery	A compressor maker	Gas compressor	Gas amount detecting
Surveying equipment	A Surveying equipment maker	Anemoscope	Direction of the wind detecting

⇒For details, please refer "Usage Case" flyers.

Finding a solution to problem by using CP-45F

Customer	MIDORI's Suggestion	
Problem	Wish	
Current potentiometers are not worked frequently owing to short life time.	Want longer life potentiometer.	Life of CP-45F is 50 Million revolution.
It is difficult to solder wires to terminals.	It will be nice to solder wires to terminals easily.	CP-45F is applied the flat terminal.
For our usage, high load will be applied on the bearing part. We wonder if it will become a cause of damage of the part.	Want the potentiometer with higher Load bearing.	CP-45F's radial load of Bearing part (installed ball-bearing) is <6N.
Current potentiometer could not install because of no room in the machine.	Need more thinner potentiometer.	Thickness of CP-45F is only 13.5mm (from mounting surface).
Accuracy of current potentiometer is too low to use for our application.	Want to detect angle position more precisely.	Independent linearity of CP-45F is $\pm 0.1\%$. It is good for more precise measurement.
Output of Contactless type sensors has drift by changing temperature. It could not be used our machine.	Need stable output sensor under temperature change condition.	Output of CP-45F is stable ($\pm 400\text{ppm/K}$) under temperature range $-40\sim+120^{\circ}\text{C}$.

Please contact ;

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