



MIDORI's the most popular potentiometer CP-45F



Concept

High Accuracy ×

High
Durability

× Many Options

Future

Linearity $\pm 0.1\%FS$

⇒ 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 $-40\sim+120^{\circ}\text{C}$.

We are here for you. Addresses and Contacts.

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