



# MIDORI's Current Output Angle Sensor CP36U



Concept

Long Distance Transmission

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High Accuracy

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Long Life & High Durability

Future

2 wire 4~20mA Current Output

Linearity  $\pm 0.2\%FS$

TMR Element Contactless Angle Sensor

⇒ Ideal to use for Long-distance transmission. The converter is not required;

Direct current signal output

⇒ Good for precision control. Narrow temp drift value and fast responsiveness.

⇒ Long life and High durability.

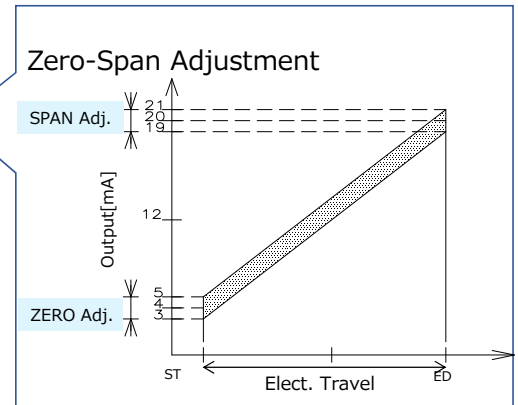
## Useful Teach-in Function (Adjusting Switch Unit)

Just push the buttons, you can set output direction and range of electrical angle range.



- ① Teach-in Electrical Angle Range
- ② Zero/Span Adjustment
- ③ Output increase direction Setting

⇒ It gives decreasing man-hour for setting.



## MAIN APPLICATIONS

Market	User	Installed	Application
Instrumentation	A Fluid Equipment maker	Valve Controller	Flow control
Instrumentation	A Flowmeter maker	Oil Level Gauge	Float position detecting
Bonding machine	A Film Manufacturing Equipment maker	Winding/Rewinding Device	Dancer roll control
Construction machinery	A Drill Machine maker	Drill Jumbo	Detecting Angle of Arm
Marine equipment	A Marine Equipment maker	Ship	Steering Angle detecting

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

# Finding a solution to problem by using CP36U?

## Customer

## MIDORI's Suggestion

### Problem

### Wish

The most of sensors with current output is 3 wire type.



Want to use 2 wire type for replacement of old potentiometer or sensor.



**CP36U is 2 wire current output type.**

Conventional potentiometer requires time-consuming works, such as complicated wiring.



Want to reduce the number of wires and then reduce working time.



**CP36U is 2 wire current output type. You can connect it directly to the machine.**

Zero-Span adjustment when fixing potentiometer is time-consuming work.



Want to reduce working time of Zero-Span adjustment.



**Resettable Zero-Span position by using Adjusting Switch Unit.**

Potentiometer cannot be changed electrical angle.



Want to change electrical angle by own.



**Teach-in function is available. It can be set angle of 18~360°.**

Potentiometer with long cable may be occurred voltage-drip and influence of external noise.



Want to connect the sensor with long cable without voltage-drip and influence of external noise.



**CP36U is suited for long-distance transmission because of Current output (4~20mA).**

Accuracy and temp drift of contactless potentiometer are not good at precision measurement.



Want to measure angle with high accuracy by using contactless potentiometer.



**CP36U is  
Abs. Lin.  $\pm 0.2\%FS$   
Temp. Drift  $\pm 1.0^\circ$**

Conductive plastic potentiometer may occur high ENR during operation by element wear.



Want to get stable measurement value with long time.



**CP36U is no wear at detecting parts. Longer life than conductive plastic potentiometer.**

Please contact ;

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