

MR-element Contactless Angle Sensor

CP-16U Series

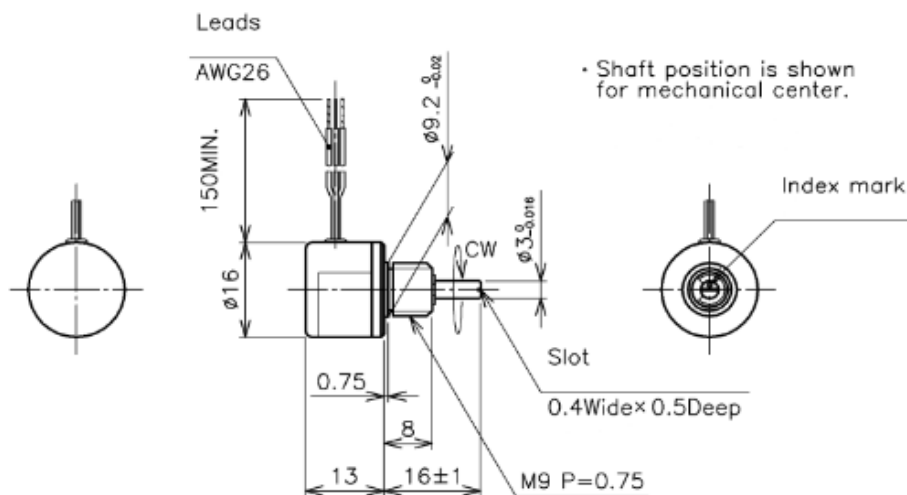
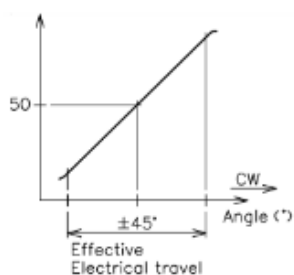
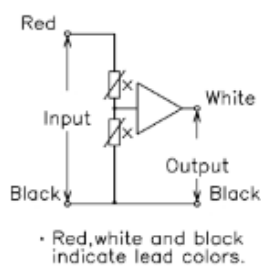
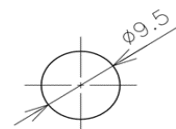
- Contactless Angle Sensor
- Lower Current Consumption: 0.6mA max.
- Effective Electrical Angle: 90°
- Independent Linearity: $\pm 1.5\%$ FS
- Low Torque

【Material】

- Housing : Aluminum
- Shaft : Stainless Steel
- Ball Bearing : Stainless Steel

Option

Electrical Angle: 120°

■Dimension [mm]**■Output Characteristics****■Schematic****■Mounting**

MIDORI MIDORI PRECISIONS
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2016/1

【Model No.】	CP-16U
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【Electrical Specifications】

Effective Electrical Travel	90	°
Output Sensitivity	3.5 ~ 6.5 /10°	%Vin
Independent Linearity	±1.5	%FS
Input Voltage	DC3 ~ 5.5	V
Load Resistance	100Min	kΩ
Temp. Characteristics	At 0° : ±0.9° At ±45° : ±7°	
Insulation Resistance	MIN. 100 / DC 500V	MΩ
Dielectric Strength	AC500 / 1 Minute	V

【Mechanical Specifications】

Total Mechanical Travel	360 Endless	°
Torque	MAX. 0.1	mN · m
Thrust Load Tolerance	1	N
Radial Load Tolerance	5	N
Mass	Approx. 10	g

【Environmental Specifications】

Life Cycles	MIN. 10 Million	Cycle
Category Temperature Range	-30~+100	°C
Storage Temperature Range	-40~+100	°C
Vibration	200m/s ² 5~500Hz(20min) 3 axis 2 hours each	
Shock	1000m/s ² 11ms 3axis 3 times	
EMS	25V/m, 1MHz ~ 1GHz (ISO11452-2, -3)	
ESD (Case to each terminal)	±4kV (IEC61000-4-2)	
EMS (Between each terminal)	±8kV (IEC61000-4-2)	

■Accessories

M9 Nut, Toothed Lock Washer (Internal) 1piece each

■Handling Instruction

- Do not use this sensor as a variable resistor.
- This product may be influenced from external magnetic field.
- Use this sensor in the place where is protected from ESD.

We are here for you. Addresses and Contacts.

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