

Conductive Plastic Angle Sensor

MIDORI CPP-35 Series



General

- Conductive Plastic Angle Sensor
- Effective Electrical Travel: 340°
- Independent Linearity: $\pm 1\%FS / \pm 0.2\%$
- Servo Mount & Screw Mount

CPP-35: $\Phi 4\text{mm}$ Shaft

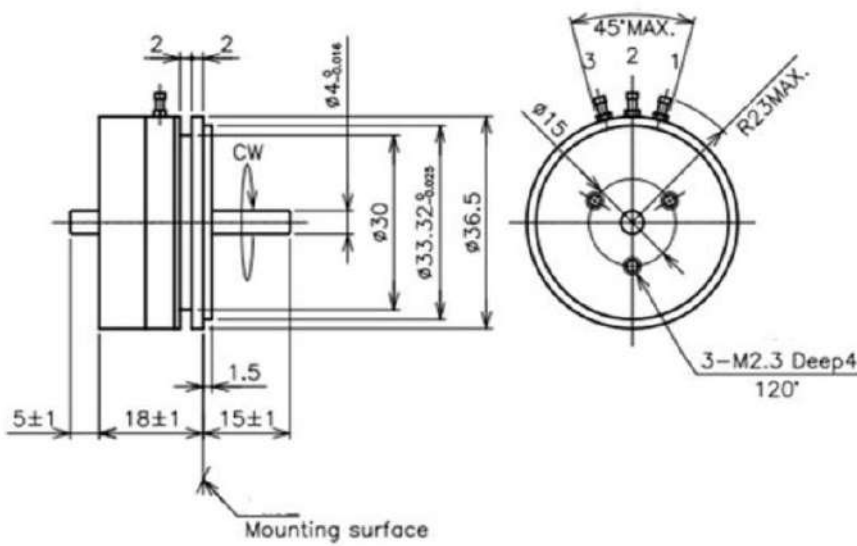
CPP-35B: $\Phi 6\text{mm}$ Shaft

Material

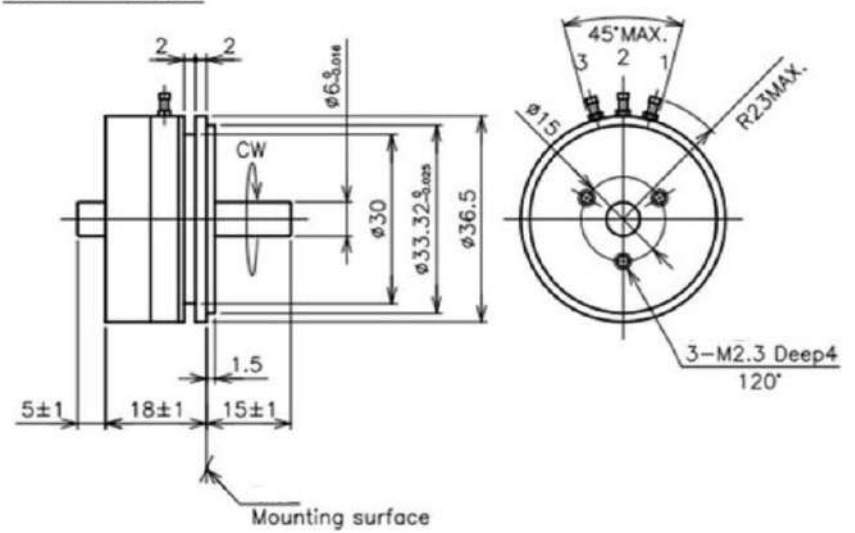
- Housing: Aluminum
- Shaft: Stainless Steel
- Ball Bearing: Stainless Steel

Dimension (mm)

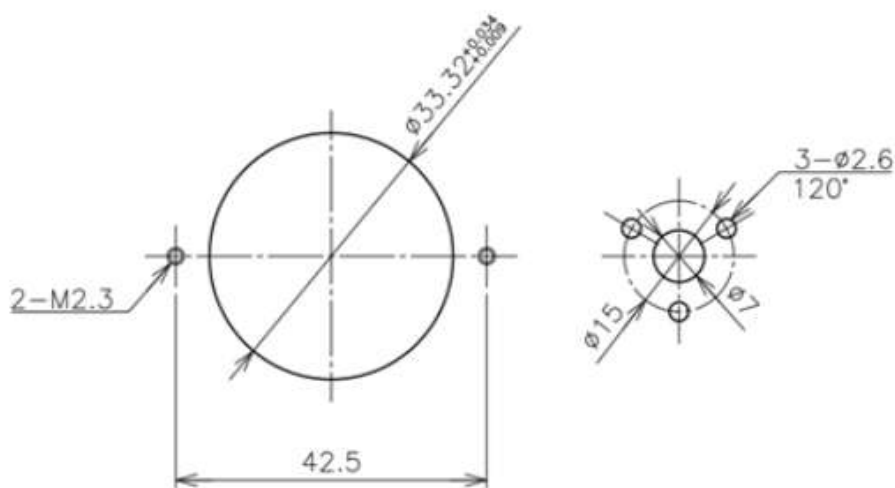
CPP-35



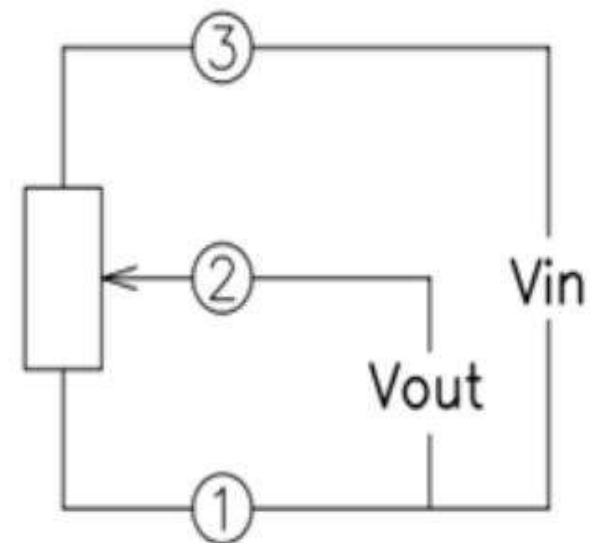
CPP-35B



Mounting(mm)

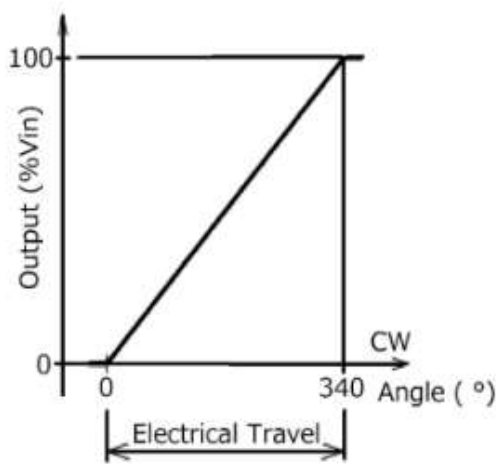


Schematic



• ①, ②, ③: Terminal No.

Output Characteristics



Specifications

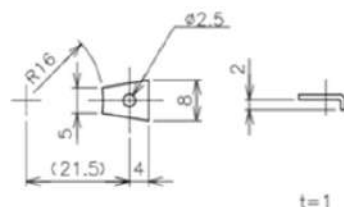
| | CPP-35 <Φ4mm Shaft> | CPP-35B <Φ6mm Shaft> |
|-------------------------------------|---|-------------------------|
| Electrical Specifications | | |
| Effective Electrical Travel | 340° +2°, -3° | |
| Output Range | 0.5K, 1K, 2K, 5K, 10K Ω | |
| Total Resistance Tolerance | ±20% | |
| Independent Linearity | ±1%, ±0.2% | |
| Rated Dissipation | 2W/ 70°C | |
| Output Smoothness | 0.1% MAX. | |
| Insulation Resistance | 100MΩMIN./DC1000V | |
| Dielectric Strength | AC1000V/ 1Minute | |
| TC of Resistance | ±400ppm/K | |
| Mechanical Specifications | | |
| Total Mechanical Travel | 360° Endless | |
| Thrust Load Tolerance | 2N | 3N |
| Radial Load Tolerance | 4N | 5N |
| Torque | 1.4mN · m MAX. (Additional 1.2mN · m/ add one gang) | |
| Weight | Approx. 40g (Additional 10g/add one gang) | |
| Environmental Specifications | | |
| Life Cycles | 10 Million cycles MIN. | |
| Category Temp. Range | -40~+100°C | |
| Storage Temp. Range | -40~+100°C | |
| Vibration | 150m/S2 2000Hz 3axis 2hours each | |
| Shock | 500m/S2 11ms 6directions 3times | |
| | | |
| | | |
| | | |

Options

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|---|
| Multi Ganging: More than 3 sections --- Please contact us |
| Additional Center Tap: C.T(A) --- No shorted angle |
| C.T(B) --- Shorted on Tap (Shorted angle 1°~5°) |

Accessories

| |
|---------------------------|
| Mounting Cleats: 2 pieces |
|---------------------------|



Handling Instruction

- To avoid burnout of resistive element, do not supply more than 1mA current to terminal 2.
- Miswiring might cause burnout of resistive element.
- To reduce sliding noise, add load resistance should be more than 100times and less than 1000times of total resistance.
- Slight continuous vibration such as dither might cause short lifetime of the sensor.