# Conductive Plastic Tilt Angle Sensor

# MIDORI 7450Pot Series

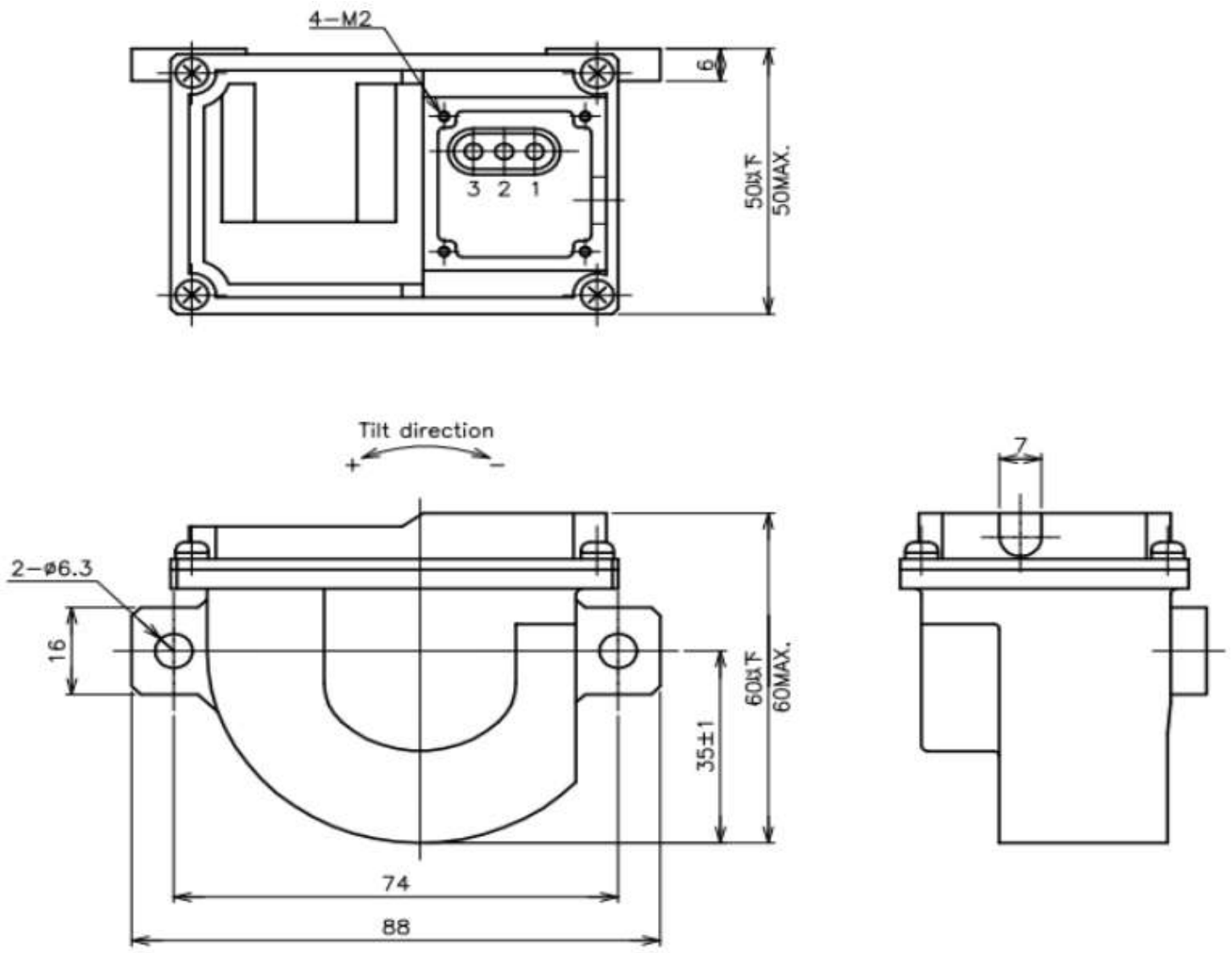
## General

- Conductive Plastic Tilt Angle Sensor
- Single Axis
- Effective Electrical Tilt Angle: 85°
- Total Accuracy: ±1%
- Ratio Output

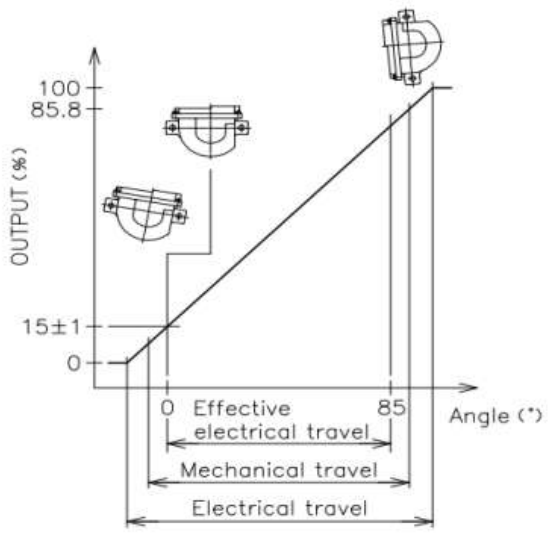
## Material

- Housing: Aluminum

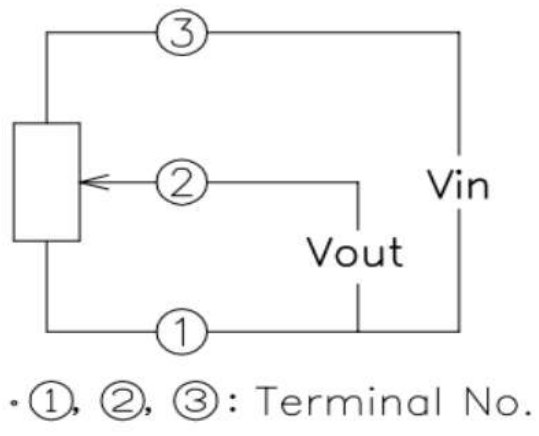
## Dimension (mm)




## Output Characteristics




## Schematic




· ①, ②, ③: Terminal No.

## Mounting

# Specifications

| | 7450POT |
|---|---|
| **Electrical Specifications** | |
| **Tilt Angle** | 110°, CCW Side 95°MIN/ CW Side 10°MIN |
| **Total Accuracy** | ±1.0% |
| **Built-in Sensor** | CP-2FJ Conductive Plastic Angle Sensor |
| **Effective Electrical Travel** | 85° |
| **Total Resistance** | 500Ω |
| **Total Resistance Tolerance** | ±20% |
| **Rated Dissipation** | 0.33W/50℃ |
| **Insulation Resistance** | 200MΩ/DC500V MIN. |
| **Dielectric Strength** | AC500V/1Minute |
| **Mechanical Specifications / Environmental Specifications** | |
| **Category Temp. Range** | -20~+80℃ |
| **Storage Temp. Range** | -40~+80℃ |
| **Vibration** | 50m2/S 33Hz 3axis 2hours |
| **Shock** | 200m/S2 6 directions 3 times |
| **IP Level** | IP64 |

# Accessories

Terminal Protection Lid: 1pc

M2 Pan Head Machine Screw: 4pcs

# Handling Instruction

・To avoid burnout of resistance element, do not supply more than 1mA current to Terminal 2.

・To reduce sliding noise, add load resistance should be more than 100 times and less than 1000 times of total resistance.

・Slight continuous vibration such as dither might cause short lifetime of the sensor.