

Contactless Hall-IC Angle Sensor

MIDORI CP-2HA Series



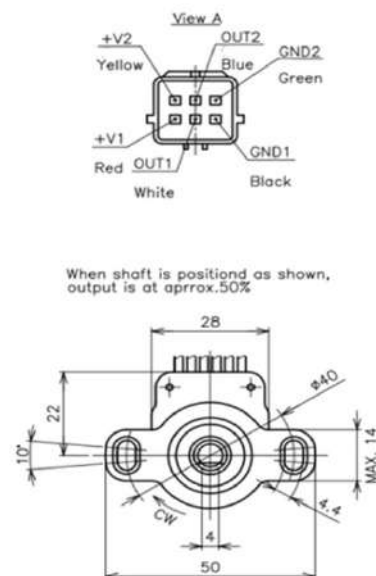
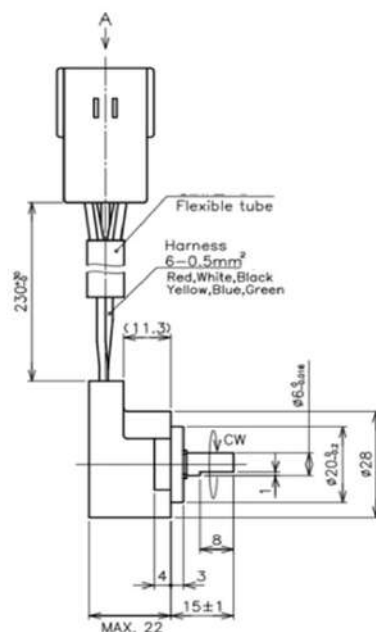
General

- Single-turn Hall-IC Angle Sensor
- Effective Electrical Travel: 350°
- Independent Linearity: $\pm 1\%$ FS
- Bushing Mount
- Dual Output
- IP65

Material

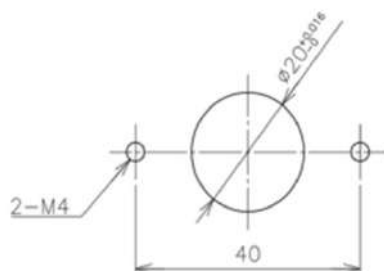
- Housing: PBT
- Shaft: Stainless Steel
- Bearing: Copper Alloy

Dimension (mm)

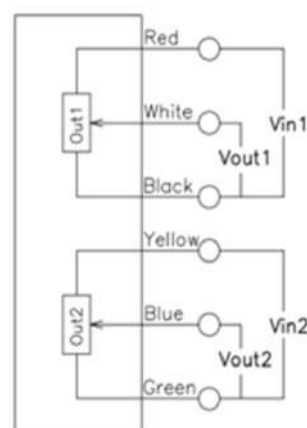


When shaft is positioned as shown, output is at approx.50%

Mounting(mm)

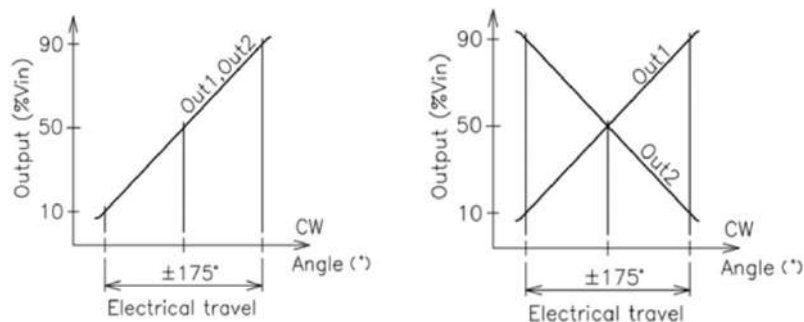


Schematic



• Red,White,Black,Yellow,Blue,Green indicate harness colors.

Output Characteristics



Specifications

Electrical Specifications

Effective Electrical Travel	350° (Option: 60~359.9°)
Output Range	10~90%Vin
Independent Linearity	±1%FS
Input Voltage	DC5V±0.5V
Load Resistance	10KΩ MIN.
Supply Current	32mA MAX.
Insulation Resistance	100MΩMIN./DC50V
Temp. Characteristics -40~+125°C	±2.45° (Reference Temperature: 25°C)
Output Resolution	12bit (0~100%Vin)
Hysteresis	0.2%FS MAX.
2 Output Difference (Parallel Output)	±2%FS

Mechanical Specifications

Total Mechanical Travel	360° Endless
Torque	180mN · m
Thrust Load Tolerance	3N
Radial Load Tolerance	4N
Weight	Approx. 40g

Environmental Specifications

Life Cycles	10 Million cycles MIN.
Category Temp. Range	-20~+100°C
Storage Temp. Range	-20~+100°C
Vibration	110.7m/S2 18~2000Hz (6min), 3axis 8hours
Shock	294m/S2 11ms 3axis 3times
EMS	100V/m 200MHz~1GHz
ESD(Case to Each Terminal)	±6 (IEC61000-4-2)
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IP Level	IP65

Options

w/o AMP Connector

Handling Instruction

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