

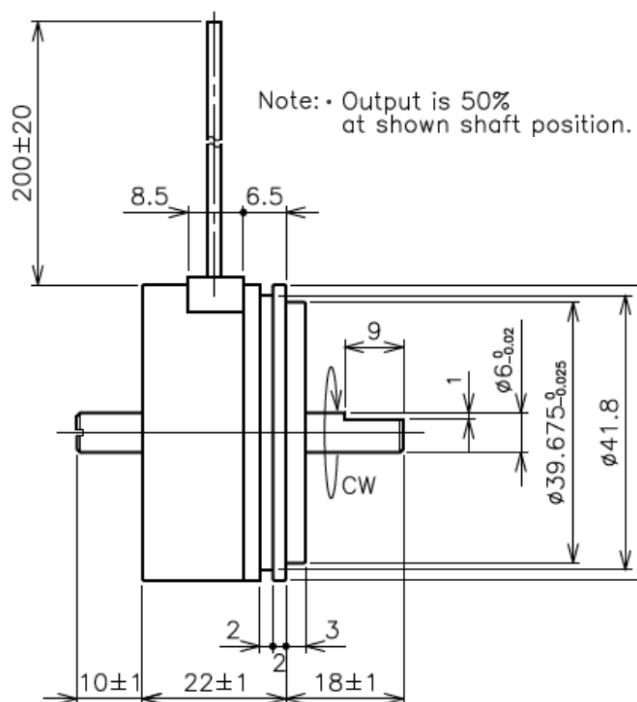
Contactless Hall-IC Angle Sensor

CP-45H Series

- Contactless Hall-IC Angle Sensor
- Effective Electrical Travel : 360°
- Absolute Linearity : $\pm 0.4\%$ FS
- Input Voltage : $DC5\pm 0.5V$
- Output Range : 10%~90%Vin

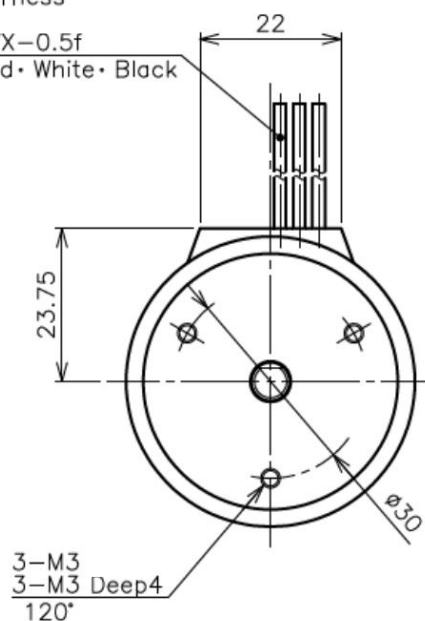
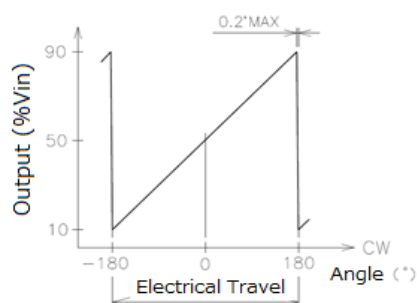
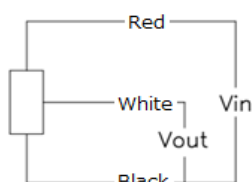
【OPTIONS】

- Available Effective Electrical Travel Range : 90°~360°
- Dual Output
- Inverse Output

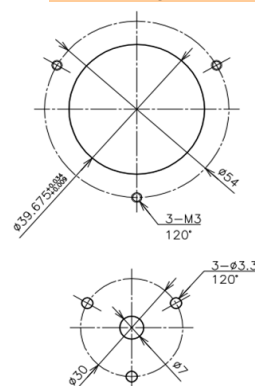
■Dimension [mm]**Harness**

AVX-0.5f

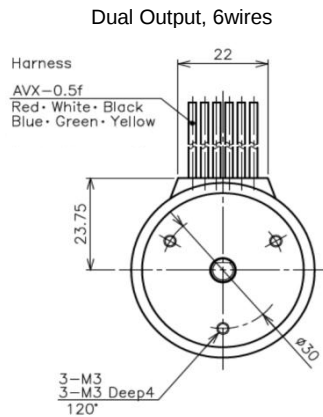
Red • White • Black

**■Output Characteristics****■Schematic**

• Red, White, Black: Harness Colors

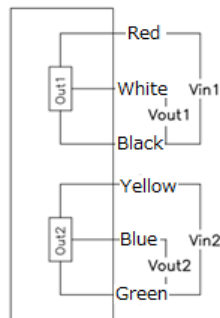
■Mounting
MIDORI PRECISIONS

Dimension [mm]



Schematic

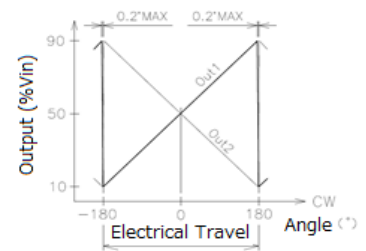
Dual Output, 6wires



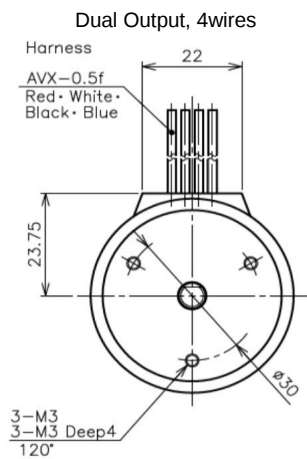
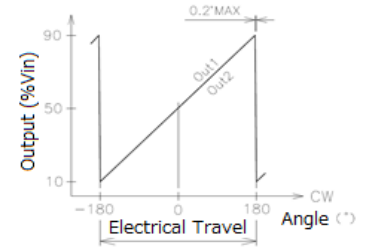
Each color indicate harness colors

Mounting

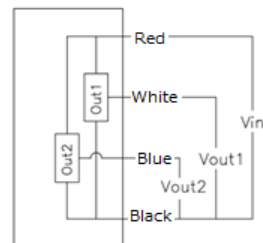
CP-45HC Cross Output



CP-45HP Parallel Output

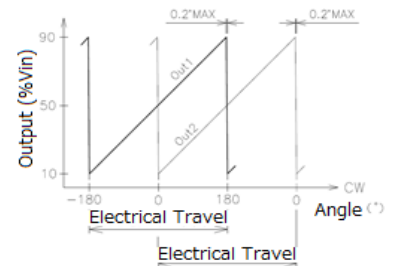


Dual Output, 4wires



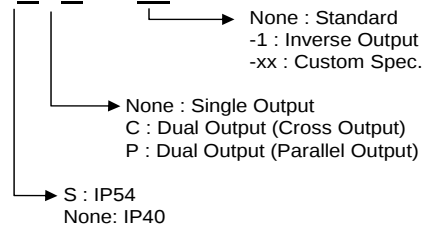
Each color indicate harness colors

CP-45HP(180°Phase Output)



CP-45H Model Number Designation

CP-45H S P - xx



MIDORI MIDORI PRECISIONS

【Electrical Specifications】

Model No.	CP-45H	CP-45HS	CP-45HC	CP-45SC	CP-45HP	CP-45HSP	
Effective Electrical Travel	360						°
Output Range	10~90						%Vin
Absolute Linearity	±0.4						%FS
Input Voltage	DC5±0.5						V
Load Resistance	10						kΩ
Supply Current	10 MAX.						mA/1ch
Insulation Resistance	100 MIN /DC50						MΩ
Output Resolution	12 (Shaft Rotational Speed 20rpm MAX.)						bit
Response Time	0.9						ms
Hysteresis	±0.2						%FS
Temp. Characteristics -40~100°C (Ref. Temp. 25°C)	±1.08						°
Dual Output Difference	---		100±1.5 (Sum 1,2)		±1.5		%Vin

【Mechanical Specifications】

Model No.	CP-45H	CP-45HS	CP-45HC	CP-45SC	CP-45HP	CP-45HSP	
Total Mechanical Travel	360 endless						°
Torque	1.8	30	1.8	30	1.8	30	mN·m
Thrust Load Tolerance	2						N
Radial Load Tolerance	6						N
Mass	Approx. 100						g

【Environmental Specifications】

Model No.	CP-45H	CP-45HS	CP-45HC	CP-45SC	CP-45HP	CP-45HSP	
Life Cycles	10M (Room Temp. , No Load, CW/ CCW)						Cycle
Category Temp. Range	-40~+100 (No condensation)						°C
Storage Temp. Range	-40~+100 (No condensation)						°C
Vibration	5~500Hz(6 min) 200m/s ² (20G) 3directions 4hours each						
Shock	1000m/s ² (100G) 6directions 3times						
E M S	100V/m 1M~1GHz (ISO 11452)						
ESD (Case to Each Terminal)	±15 MAX. (IEC 61000-4-2)						kV
ESD (Between Each Terminal)	±15 MAX. (IEC 61000-4-2)						kV
IP Level	IP40	IP54	IP40	IP54	IP40	IP54	

■ Handling Instruction

- Do not use Hall-IC sensor as a variable resistor.
- This products 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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