

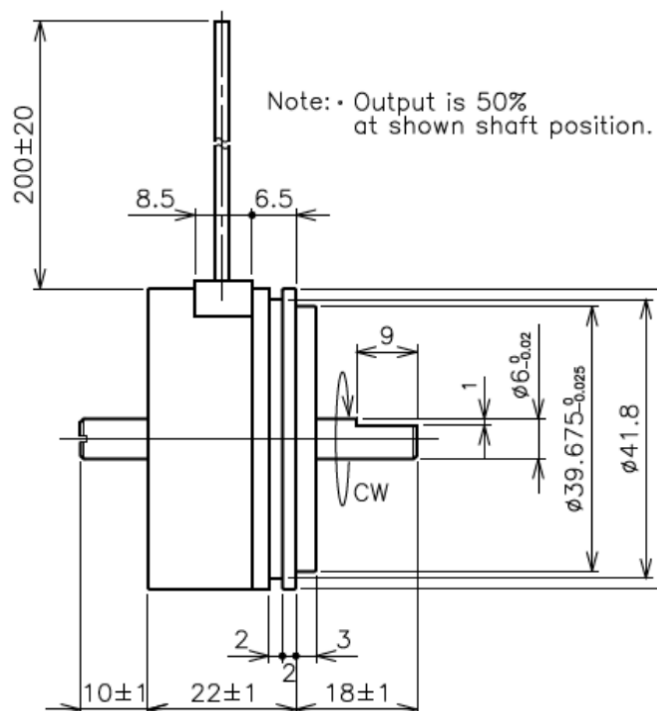
Contactless Hall-IC Angle Sensor

CP-45H-10V Series

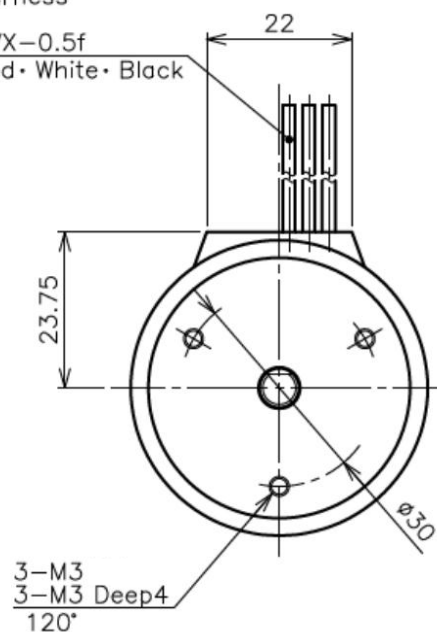
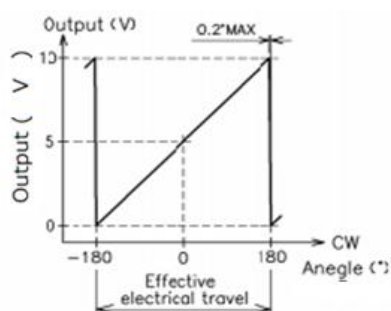
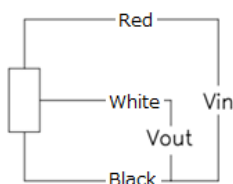
- Contactless Hall-IC Angle Sensor
- Effective Electrical Travel : 360°
- Absolute Linearity : $\pm 1\%$ FS
- Input Voltage : DC14~32V
- Output Range : DC0~10V

【OPTIONS】

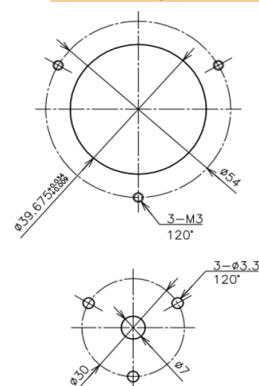
- Available Effective Electrical Travel Range : 90°~360°
- Dual Output
- Inverse Output

Dimension [mm]**Harness**

AVX-0.5f
Red • White • Black

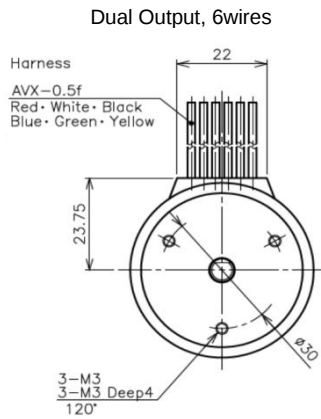
**Output Characteristics****Schematic**

• Red, White, Black: Harness Colors

Mounting

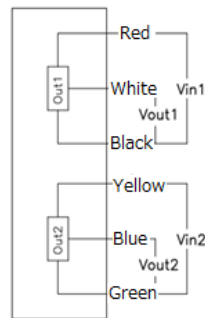
MIDORI MIDORI PRECISIONS

Dimension [mm]



Schematic

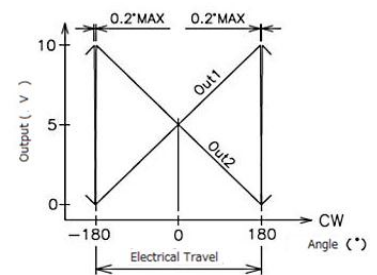
Dual Output, 6wires



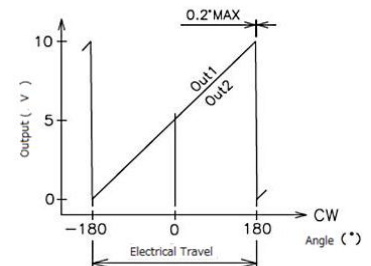
Each color indicate harness colors

Mounting

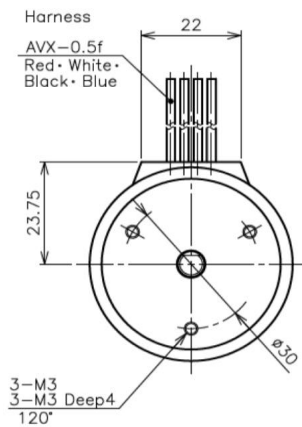
CP-45HC-10V Cross Output



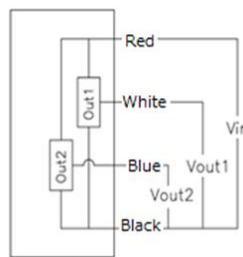
CP-45HP-10V Parallel Output



Dual Output, 4wires

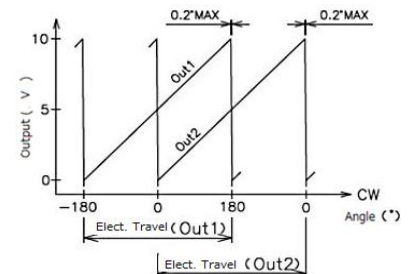


Dual Output, 4wires

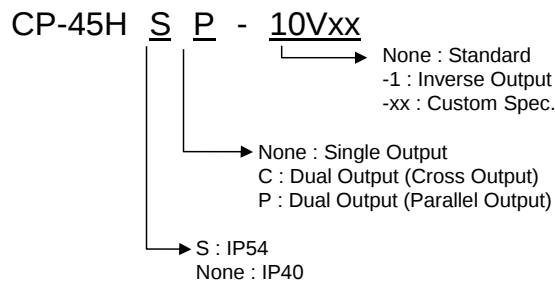


Each color indicate harness colors

CP-45HP-10V(180°Phase Output)



CP-45H-10V Model Number Designation



MIDORI MIDORI PRECISIONS

【Electrical Specifications】

Model No.	CP-45H-10V	CP-45HS-10V	CP-45HC-10V	CP-45SC-10V	CP-45HP-10V	CP-45HSP-10V	
Effective Electrical Travel	360						°
Output Range	0~10						V
Absolute Linearity	±1.0						%FS
Input Voltage	DC14~32						V
Load Resistance	10						kΩ
Supply Current	13						mA/1ch
Insulation Resistance	100 MIN /DC50						MΩ
Output Resolution	12 (Shaft Rotational Speed 16rpm)						bit
Response Time	0.9						ms
Hysteresis	±0.2 MAX.						%FS
Temp. Characteristics -40~100°C(Ref.Temp.25°C)	±3.6						°
Dual Output Difference	---		100±1.5 (Sum 1,2)		±1.5		%Vin

【Mechanical Specifications】

Model No.	CP-45H-10V	CP-45HS-10V	CP-45HC-10V	CP-45SC-10V	CP-45HP-10V	CP-45HSP-10V	
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-10V	CP-45HS-10V	CP-45HC-10V	CP-45SC-10V	CP-45HP-10V	CP-45HSP-10V	
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(6min) 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)	±15MAX. (IEC 61000-4-2)						kV
ESD (Between Each Terminal)	±15MAX. (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.

Headquarter Switzerland:

Angst+Pfister Sensors and Power AG
Thurgauerstrasse 66
CH-8050 Zurich
Phone +41 44 877 35 00
sensorsandpower@angst-pfister.com

Office Germany:

Angst+Pfister Sensors and Power Deutschland GmbH
Edisonstraße 16
D-85716 Unterschleißheim
Phone +49 89 374 288 87 00
sensorsandpower.de@angst-pfister.com

Office North America:

Angst+Pfister North America Inc.
10391 Brecksville Rd.
US-Brecksville, OH 44141
Phone +1 440 375-5212
info.apus@angst-pfister.com

Scan here and get an overview of personal contacts!



<https://sensorsandpower.angst-pfister.com/en/>
