

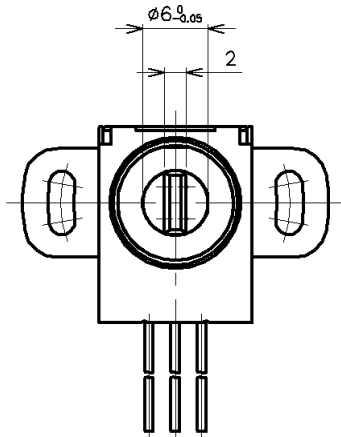
Contactless Hall-IC Angle Sensor

CP-1HX Series

■Dimension

【mm】

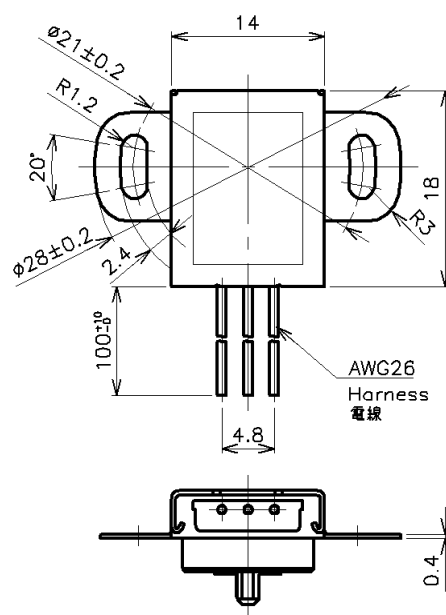
Shaft : Double side flat



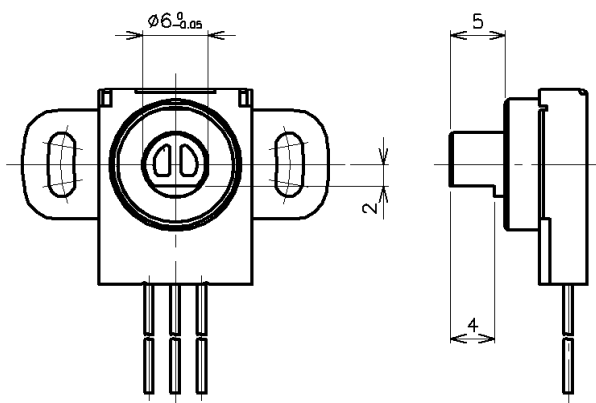
Out,GND,+V
White,Black,Red
白,黒,赤

- Shaft position is shown for approx. 50%Vin
- シャフトが本図位置にある時出力は約50%になります。

Single Output (3 wires)

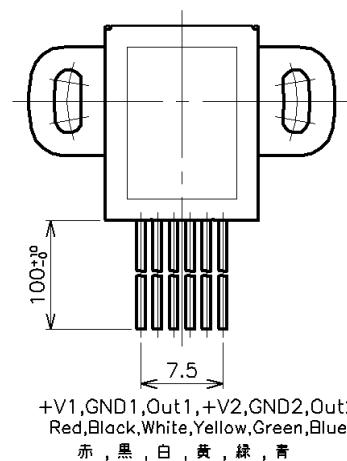


Shaft : D-cut



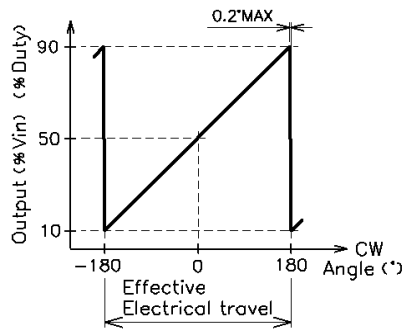
- Shaft position is shown for approx. 50%Vin
- シャフトが本図位置にある時出力は約50%になります。

Dual Output (6 wires)



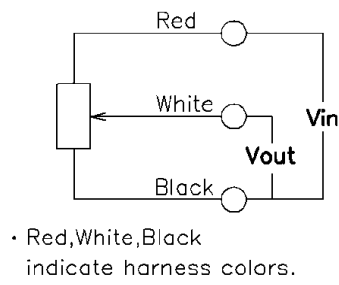
Output Characteristics

Single Output

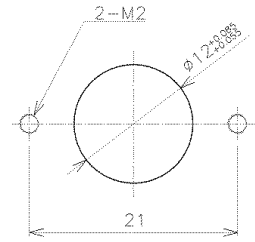


Schematic

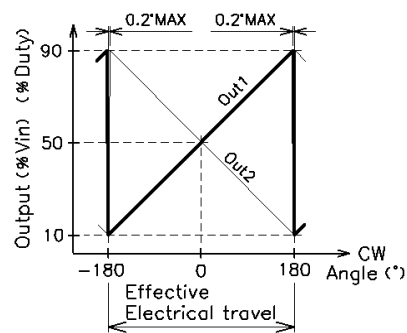
Single Output



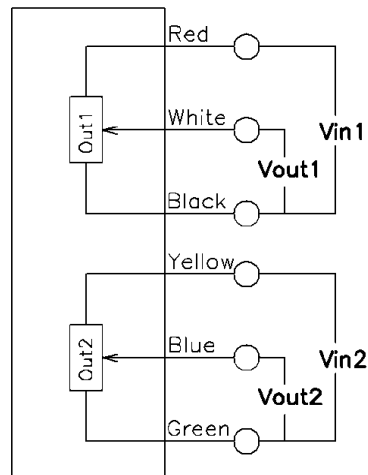
Mounting



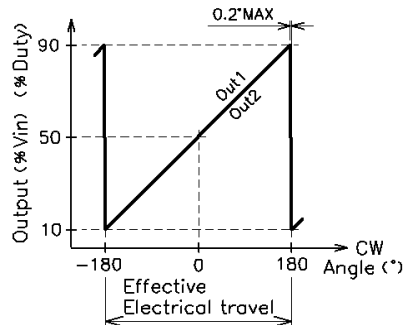
Dual Output (Cross)



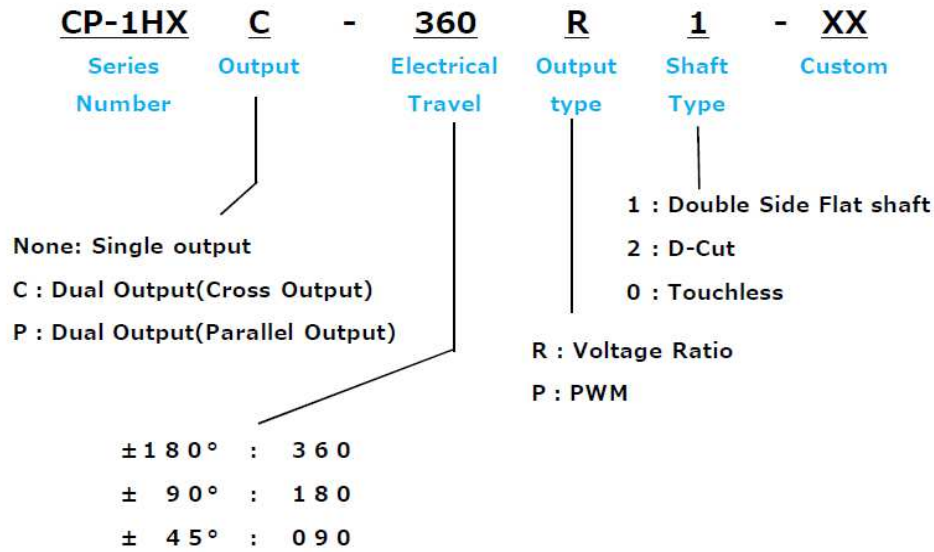
Dual Output



Dual Output (Parallel)



【CP-1HX Series Model Number Designation】



【Model Number】	CP-1HX-xxxRx	CP-1HXC-xxxRx	CP-1HX-xxxPx	CP-1HXC-xxxPx
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【Electrical Specifications】

Effective Electrical Travel	±180				°
Output Range	Ratio Output 10~90%Vin		PWM 10~90%Duty		
Absolute Linearity	±2				%FS
Input voltage	DC5±0.5				V
Load Resistance	10 MIN.				k Ω
Current Consumption	10 MAX.	20 MAX.	10 MAX.	20 MAX.	mA
Insulation Resistance	100 MIN./DC50V				M Ω
Resolution	12(0~100%Vin)				bit
Hysteresis	1.0				%FS
Temp. Characteristics -40~+85℃ (25℃ std.)	±1				°
Dual Output Difference	—	100±1%Vin	—	100:±1%Duty	

【Mechanical Specifications】

Total Mechanical Travel	360 Endless				°
Torque	3 MAX.				mN·m
Thrust Load Tolerance	4				N
Radial Load Tolerance	3				N
Mass	Approx. 5				g

【Environmental Specifications】

Lfie Cycles	7M (Room Temp., No Load)				Cycle
Category Temp. Range	-40~+85				°C
Storage Temperature Range	-40~+85				°C
Vibration	200m/s ² , 5~500Hz 10min, 3axis 2hours (Room Temp.)				
Shock	500m/s ² , 11ms, 3axis 3 times (Room Temp.)				
EMS	100V/m, 1MHz~1GHz (ISO 11452-2, -3)				
ESD (Case to Each Terminal)	Contact Discharge ±15 (IEC 61000-4-2)				kV
ESD (Between Each Terminal)	Contact Discharge ±15 (IEC 61000-4-2)				kV
IP Rating	IP67(Circuit part only)				

■ Handling Instruction

- This product may be influenced from external magnetic field.
- Use this sensor in the place where is protected from ESD.