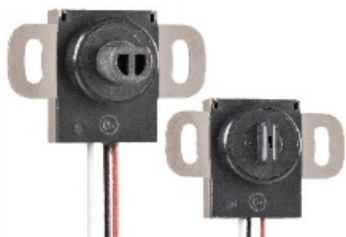
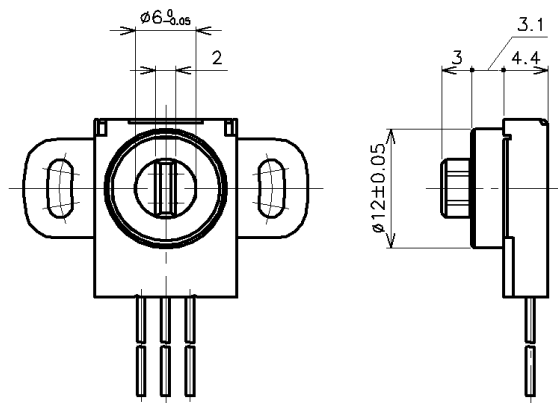


Contactless Hall-IC Angle Sensor

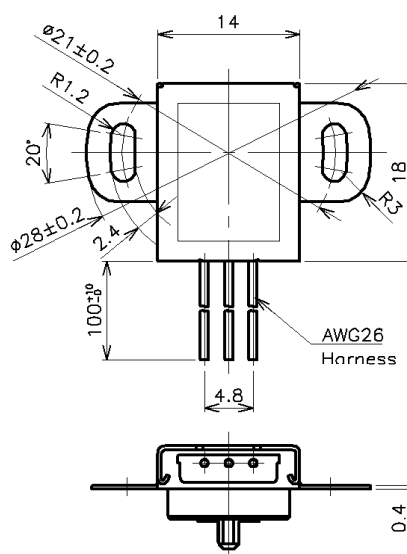
CP-1HX Series**Dimension**

【mm】

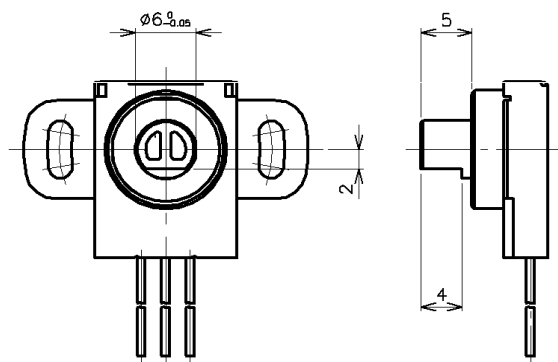
Shaft : Double side flat

Out,GND,+V
White,Black,Red• Shaft position is shown
for approx. 50% Vin

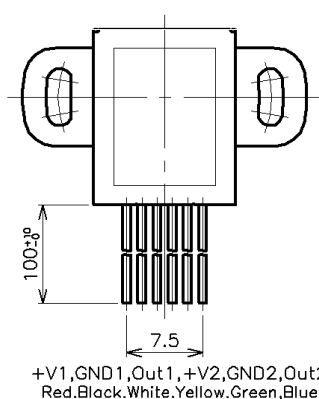
Single Output (3 wires)



Shaft : D-cut

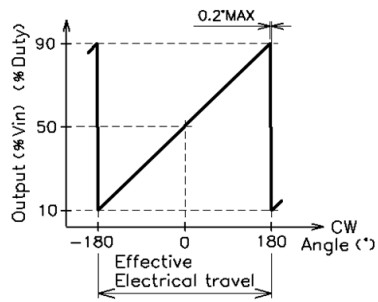
• Shaft position is shown
for approx. 50% Vin

Dual Output (6 wires)

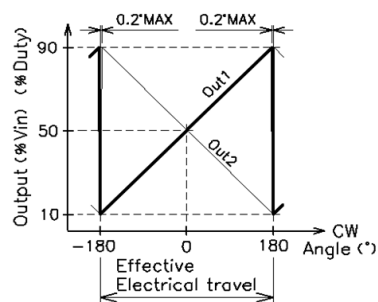


Output Characteristics

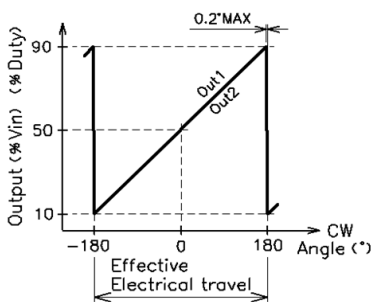
Single Output



Dual Output (Cross)

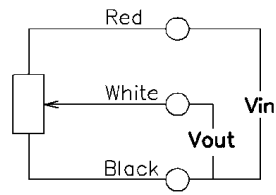


Dual Output (Parallel)



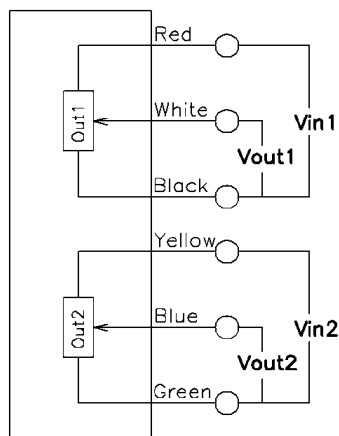
Schematic

Single Output



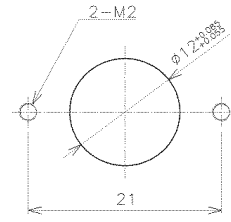
- Red, White, Black indicate harness colors.

Dual Output

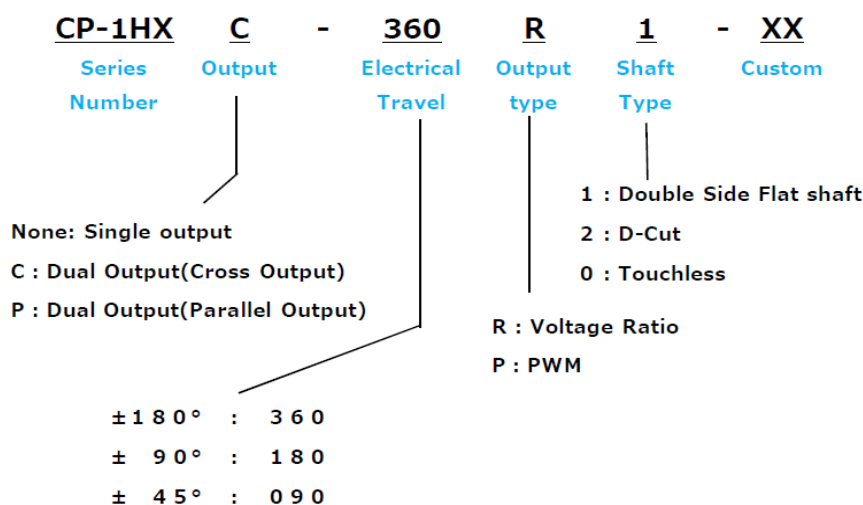


- Red, White, Black, Yellow, Blue, Green indicate harness colors.

Mounting



【CP-1HX Series Model Number Designation】



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

【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 MAX.			kΩ
Current Consumption	10 MAX.	20 MAX.	10 MAX.	20 MAX.
Insulation Resistance	100 MIN./DC50V			MΩ
Resolution	12(0~100%Vin)			bit
Hysteresis	1.0			%FS
Temp. Characteristics -40~+85°C (25°C 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】

Life 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.

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/>
