Orange Pot Contactless

Contactless Angle Sensor

<RoHS Compliance>
CP-3HABS

■FEATURES

- Substitution model of QP-3HA
- Dust, Drip proof
- Low cost
- Dual Output, 6Pin Connector, Return Spring

■Model No. Designation

CP-3HABS-211-01

- Return Spring : 0=No,1=Yes
- Drip Proof : 0=No, 1=Yes
- Output : 1=single, 2=dual

■Electrical Specifications

Electrical Angle	±45°
Output Range	10~90%Vin
Absolute Linearity (Independent. Linearity)	±4%FS (FS=90°) (±3%FS)
Input Voltage	DC5V±0.5%
Load Resistance	10KΩ MIN.
Supply Current	20mA MAX.
Insulation Resistance	DC50V 100MΩ MIN.
Resolution	12 Bit
Hysteresis	0.3° MAX.
Temp.Characteristics -40~125℃ (ReferenceTemp.25℃)	@0° : ±2° @±45° : ±4°

■Mechanical Specification

Mechanical Angle	120° ±5°
Stopper Strength	1N・m MIN.
Torque	5~60mN・m
Weight	Approx. 30g
Shaft Radial Load	6N MIN.
Shaft Thrust Load	3N MIN.

■Enviromental Specification

Life Cycles	50M Cycle MIN.
Vibration	200m/S 5~500Hz(6min) 3axis 2hours
Shock	1000m/S² 6ms 3axis 3times
EMS	100V/m 200MHz~1GHz
Operating Temp.	-40~125℃
Storage Temp.	-40~125℃
ESD(Case~Each Terminal)	±16kV(IEC61000-4-2)
ESD(Each Terminal)	±8kV(IEC61000-4-2)
I P Level	IP65

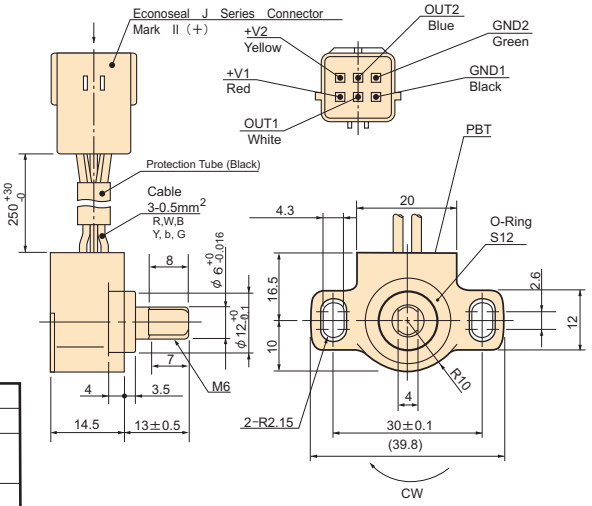
OPTIONS

- Single Output
- Dual Output (Parallel Outputs)
- Electrical Angle:±30°
- Without Return Spring (D-cut Shaft)

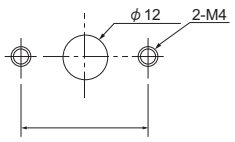
HANDLING INSTRUCTION

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

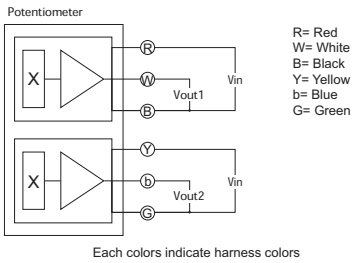
■DIMENSION (mm)



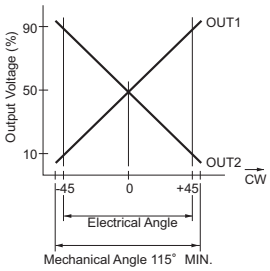
■MOUNTING



■SCHEMATIC



■OUTPUT CHARACTERISTICS



- Cross output for Self-diagnosis function:
  Output 1 + Output 2 =100±6.4%

PEWATRON
a member of the Angst + Pfister Group

We are here for you. Addresses and Contacts

Sales Switzerland

Postcode 3000 – 9999
Liechtenstein

Matthias Rüegg
Ruhbergstrasse 32
CH-9230 Flawil

Phone + 41 44 877 35 18
Mobile + 41 76 491 66 66
Fax + 41 44 877 35 19

matthias.rueegg@pewatron.com

Postcode 1000 – 2999

Raffael Favaretto
Route d'Oron 124
CH-1673 Promasens

Phone + 41 44 877 35 22
Mobile + 41 76 444 63 14
Fax + 41 44 877 35 23

raffael.favaretto@pewatron.com

Sales Germany

Postcode 60000 – 79999

Dieter Hirthe
Mühlweg 23
D-71554 Weissach i.T.

Phone + 49 719 149 60 58
Mobile + 49 163 762 74 30
Fax + 49 719 193 31 88

dieter.hirthe@pewatron.com

Postcode 10000 – 59999
Postcode 80000 – 99999

Kurt Stritzelberger
Neumarkter Str. 86a
D-81673 Munich

Phone + 49 89 260 38 47
Mobile + 49 171 803 41 35
Fax + 49 89 43 10 91 91

kurt.stritzelberger@pewatron.com

Key Accounts
Aerospace and Defence

Claus Wübbena
Vogelkamp 26
D-26655 Westerstede

Phone + 49 4488 5204 614
Mobile + 49 173 9700 691
Fax + 49 4488 5204 616

claus.wuebbena@pewatron.com

Sales Austria

Kurt Stritzelberger
Neumarkter Str. 86a
D-81673 Munich

Phone + 49 89 260 38 47
Mobile + 49 17 18 03 41 35
Fax + 49 89 43 10 91 91

kurt.stritzelberger@pewatron.com

Sales Other Countries / Product Management

Sensors

Physical Sensors
Data Acquisition

Peter Felder
Phone + 41 44 877 35 05
peter.felder@pewatron.com

Geometrical Sensors

Eric Letsch
Phone + 41 44 877 35 14
eric.letsch@pewatron.com

Power Supplies

DC-DC Converters
Switching Power Supplies
DC-AC Inverters

Sebastiano Leggio
Phone + 41 44 877 35 06
sebastiano.leggio@pewatron.com

E-Components

Current Sensors
Man Machine Interface
Measurement Probes

Sebastiano Leggio
Phone + 41 44 877 35 06
sebastiano.leggio@pewatron.com

PEWATRON AG
Thurgauerstrasse 66
CH-8052 Zurich

Phone + 41 44 877 35 00
Fax + 41 44 877 35 25

www.pewatron.com
info@pewatron.com