Cooka (Zhongshan) Technology Co., Ltd.

- 36mm diameter
- Ceramic base element
- 3,000,000 cycles
- ±1% precision Linearity
- Aluminium structure
- Double bearings rotation
- High sppeed continuous rotation available



CRS36 – 36mm Precision Rotary Sensor Specification

Electrical

Standard Resistance Range 1kΩ, 2KΩ, 5KΩ, 10kΩ

Resistance Tolerance . . . . . 10% standard

End Resistance . . . . . 10Ω max.

Resistance Taper . . . . . .linear

Linearity . . . . . ±1% max.

Noise (C.R.V.) . . . . . 100 mV Max.

Power Rating . . . . . 0.5 watt at 40℃, 0 watt at 85℃

Temperature coefficient . . . . . 500PPM/℃

Maximum Input Voltage . . . . . 200VDC Max.

Insulation Resistance . . . .100MΩ minimum at 1,000VDC

Dielectric Strength . . . . . 1,000VAC, 1 minute

Mechanical

Mechanical Angle . . . . . 360°

Electrical Angle . . . . . 340°, 350°

Rotaotion Torque. . . . . .5g.cm~40g.cm

Push Strength On Rotor . . . . . .10 kgf Min.

IP Rating. IP40

Soldering Condition

Manual Soldering . . . . . .350 °C ± 10 °C for 3.5 ± 0.5 sec.

Environmental

Working Temperature . . . . . -30℃ to 105℃

Storage Temperature . . . . . -40℃ to 125℃

Durability Test

Temperature Characteristics Test . . . . . .125℃, 5 hours

ΔT/R ≤±5%

Temperature Cycle Test . . . . . -40℃, 125℃,30 minutes each, 5 cycles

ΔT/R ≤±10%

Load Life Test. . . . . 40℃, 0.25 watt, 1,000 hours

ΔT/R ≤±10%

Moisture and Load Life Test . . . . 40℃, 90-95%RH,0.25 watt, 500 hours

ΔT/R≤±10%

Vibration Test . . . . . 10-55Hz, 1.5mm amplitude, 3 directions

ΔT/R ≤±5%

Soldering Heat Resistance Test . . . . . 350℃±5℃, 3 seconds

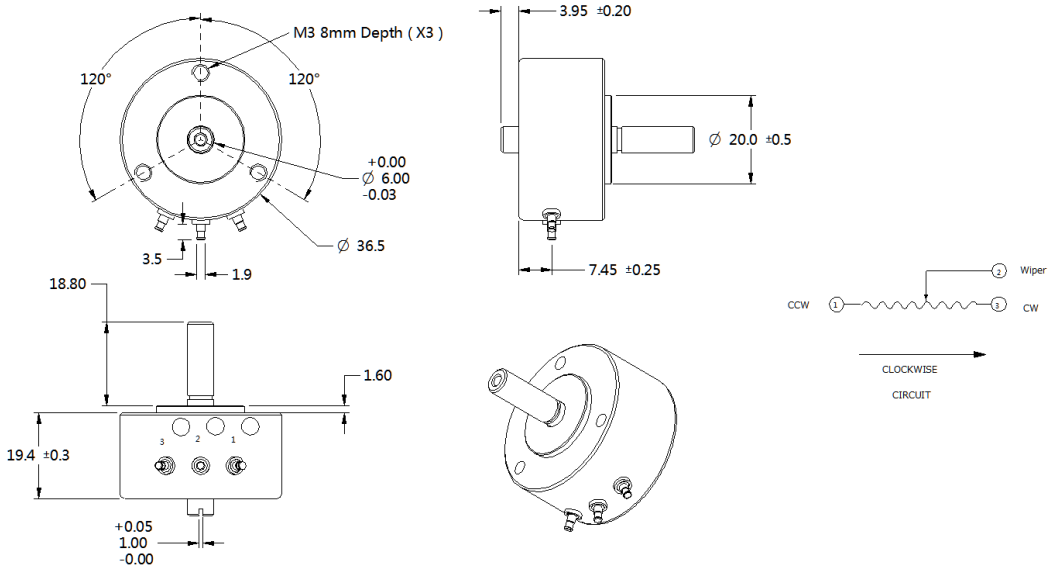
ΔT/R≤±2%

Rotational Life Test. . . . . .3,000,000 cycles without load

ΔT/R≤±5%

ΔT/R = Total Resistance Change

CRS36 Series Product Dimension



Unit: mm

CRS36 Series Part Numbering System

CRS36 **S** **2K** **B** **A** **A**

Series Code

Life Code
S = 3,000,000 cycles
P = 5,000,000 cycles

Resistance Code(Ω)

Resistance Tolerance Code
A = ±10%
B = ±20%

Linearity Code
A = ±0.25%
B = ±0.5%
C = ±1%

Effecitve Angle
A = 340°
B = 350°