Cooka (Zhongshan) Technology Co., Ltd.

- 22mm diameter
- 5,000,000 cycles life
- ±1% precision linearity
- Low electronic noise
- Water resistant(IP65,IP67)
- High speed continuous rotation available



MRS22 – 22mm Precision Rotary Sensor Specification

Electrical

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

Resistance Tolerance . . . . . 10% standard

End Resistance . . . . . 10Ω max.

Resistance Taper . . . . . linear

Linearity . . . . . ±1.0%

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

Temperature Coefficient . . . . . 800ppm/℃

Power Rating . . . . . .0.25 watt at 40℃

Maximum Input Voltage . . . . . 50VDC Max.

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

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

Mechanical

Mechanical Angle . . . . . 360°

Shaft Torque . . . . . .10~80 gf•cm

Shaft Strength (push) . . . . . .12.75 kgf Min.

Shaft Strength (tensile) . . . . . .12.75 kgf Min.

IP Rating IP65

Environmental

Working Temperature . . . . . -30℃ to 85℃

Storage Temperature . . . . . -40℃ to 105℃

Durability Test

Temperature Characteristics Test . . . . . 105℃, 4 hours

ΔT/R ≤±20%

Temperature Cycle Test . . . . . -40℃, 105℃,30 minutes each, 5 cycles

ΔT/R ≤±10%

Load Life Test. . . . . 40℃, 0.25 watt, 96 hours

ΔT/R ≤±10%

Moisture and Load Life Test . . 40℃, 90-95%RH,0.25 watt, 96 hours

ΔT/R≤±10%

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

ΔT/R ≤±5%

Rotational Life Test. . . . . 2,000,000 cycles without load

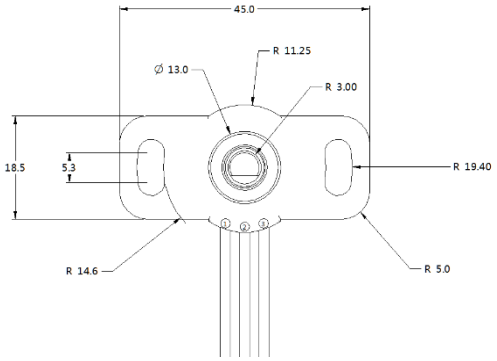
Special: 5,000,000 cycles

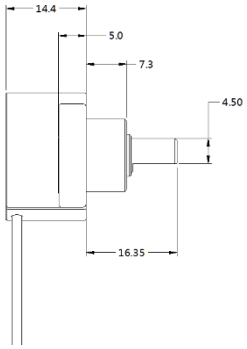
ΔT/R≤±10%

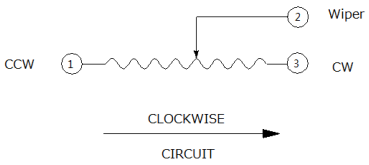
ΔT/R = Total Resistance Change

MRS22 Series Product Dimension

Unit: mm







MRS22 Series Part Numbering System

MRS22 | **Q** | **A** | **1K** | **B** | **B** | **A**

Series Code

Life Code
E = 1,000,000 cycles
Q = 2,000,000 cycles
P = 5,000,000 cycles

Shaft Code

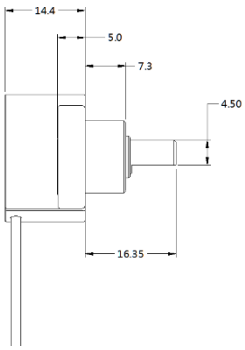
Resistance Code(Ω)

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

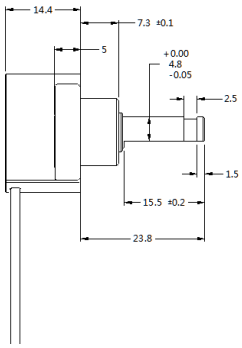
Linearity Code
A = ±1%
B = ±1.5%
C = ±2%
D = ±2.5%

Effective Angle Code
A = 280°
B = 340°
C = 240°

Shaft Code



A



B