- 22mm diameter
- Special base element
- 10 million cycles life
- Special ±0.25% precision linearity
- Lower temperature coefficient
- Water resistant(IP67)
- Continuous rotation available



SRS22 – 22mm Precision Rotary Sensor Specification

Electrical

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

Resistance Tolerance . . . . . 10% standard

End Resistance . . . . . 50Ω max.

Resistance Taper . . . . . linear

Linearity . . . . . ±0.25% ~ ±2%

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

Temperature Coefficient . . . . . 600ppm/℃

Power Rating . . . . . 2 watt at 40℃, 0 watt at 85℃

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

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

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

Mechanical

Mechanical Angle . . . . . 360°

Shaft Torque . . . . . .100 gf•cm Max.

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

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

Mounting Nut Torque . . . . . .13 kgf•cm Min.

IP Rating IP67

Soldering Condition

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

Environmental

Working Temperature . . . . . -40℃ to 105℃

Storage Temperature . . . . . -45℃ to 125℃

Durability Test

Temperature Characteristics Test . . . . . 105℃, 5 hours

ΔT/R ≤±10%

Temperature Cycle Test . . . . . -40℃, 105℃,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. . . . . 5,000,000 cycles without load

Special: 10,000,000 cycles

ΔT/R≤±5%

ΔT/R = Total Resistance Change

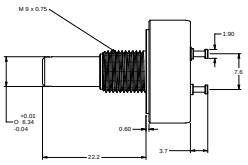
SRS22 Series Product Type And Dimension

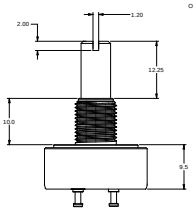
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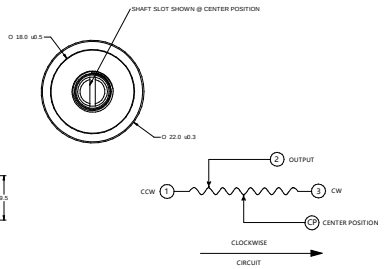
Unit: mm



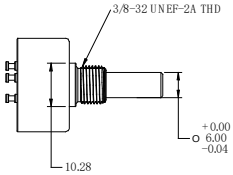
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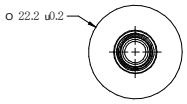


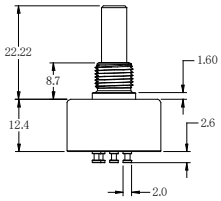


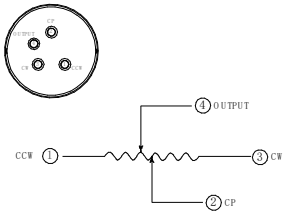


M Type

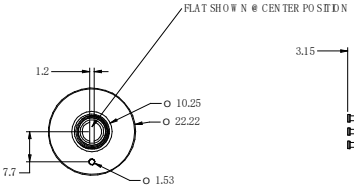


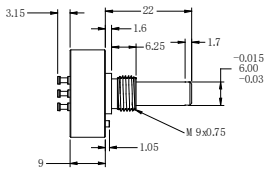


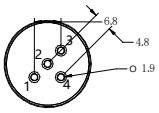


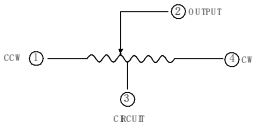


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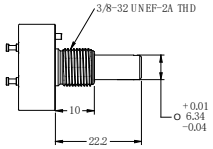


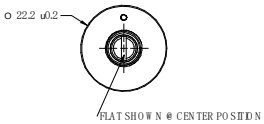


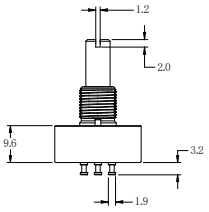


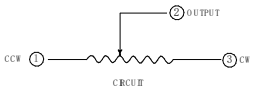


V Type





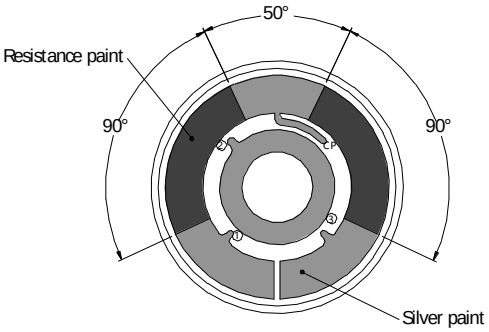




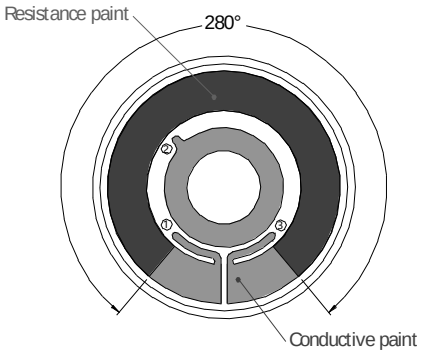
SRS22 Series Part Numbering System

SERIES CODE	LIFE CYCLES CODE		RPODUCT TYPE CODE		RESISTANCE CODE		RESISTANCE TOLERANCE CODE		LINEARITY CODE		PRODUCT ANGLES			MOUNTING LUG CODE	
											CODE	MECHNICAL	EFFECTIVE		
SRS22	P	5 MILLIONS	S	4 TERMINALS S TYPE	1K	1000 Ω	A	±10%	A	±1%	A	360°	90° X2	BLANK	WITHOUT LUG
	U	10 MILLIONS	SL	3 TERMINALS S TYPE	2K	2000 Ω	B	±20%	B	±1.5%	B	360°	280°	A	WITH LUG
	E	2 MILLIONS	M	4 TERMINALS M TYPE	5K	5000 Ω	C	±30%	C	±2%	C	360°	105° X2		
			T	4 TERMINALS T TYPE					S	±0.5%	D	360°	20° X2		
			V	3 TERMINALS V TYPE					P	±0.25%	E	360°	340°		
											F	360°	115° X2		
											G	360°	300°		

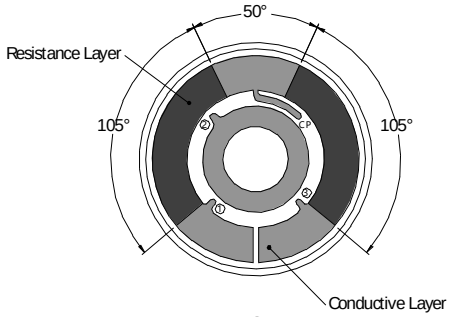
Angle Code (Reference)



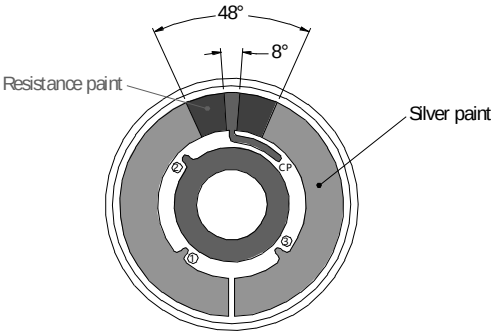
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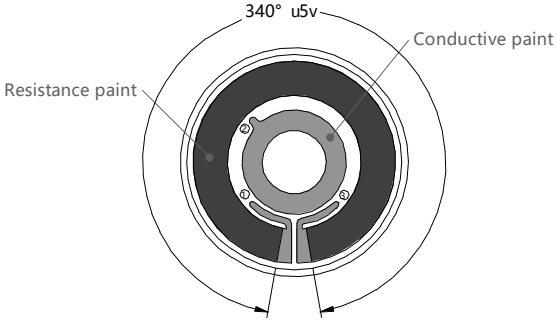
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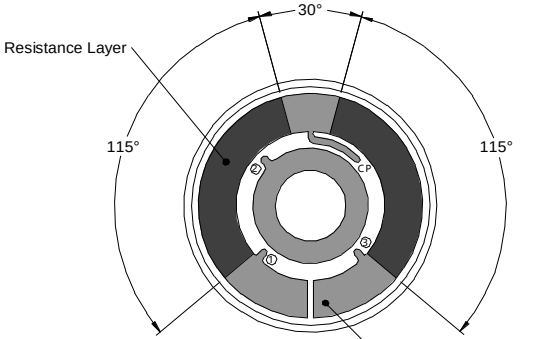
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D



E



F