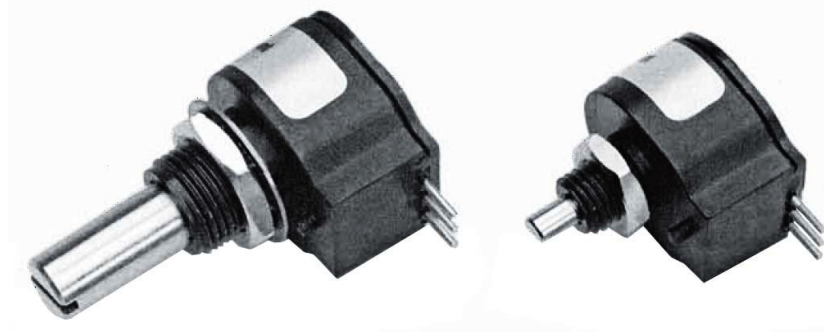


## Honeywell

For more information about this product, visit our website at: [www.potentiometers.com](http://www.potentiometers.com)



### Features

- Conductive Plastic Resistive Element
- Environmentally sealed shaft and terminals
- Long life cycling
- Rugged design for industrial applications
- Low cost
- High Accuracy
- Excellent repeatability
- High operational speed
- Electrical Angle 120° to 300°
- Precision Linearity
- Operating temperatures -55° C to 125° C
- RoHS compliant
- 303 stainless steel shaft standard
- Valox 420 housing standard
- Meets wave solder and PC board wash requirements



Socket option available - SA prefix models  
Mating connector AMP TE #87175-8 or equal

### Electrical Specifications

Independent Linearity	2%
Output Noise:	0.25%
Effective Sensing Angle	See Ordering Guide
Resistance	2k to 20k Ohms
Resistance Tolerance	±10%
Power Rating @ 70° C	1 watt
	derated linearly to 0 watts @ 125° C
Dielectric Withstanding Voltage	1000 Volts RMS
Insulation Resistance (500 VDC)	1000 Megohms

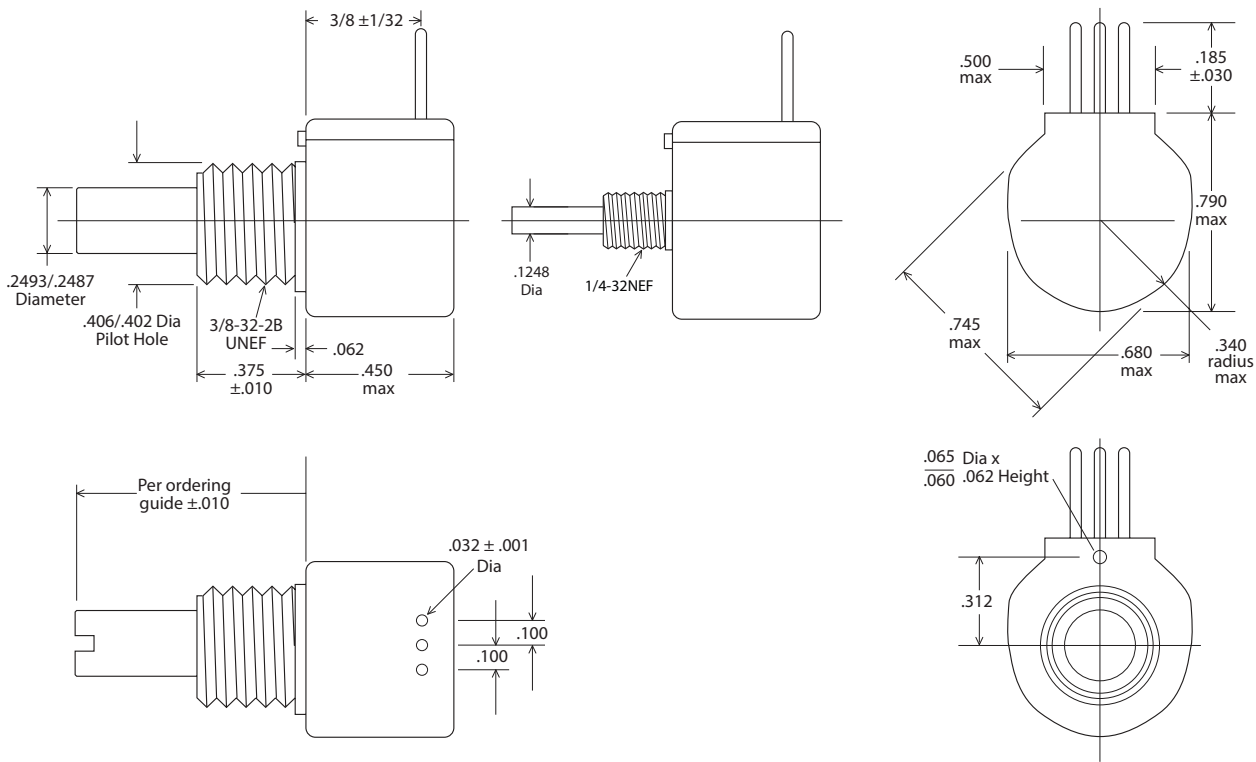
### Mechanical Specifications

Mounting type	Bushing
Mechanical Angle	See Ordering Guide
Starting and Running Torque	1.5 oz-in max
Stop Strength	4 in-lb minimum
Shaft Radial Load Limit	10 lb
Shaft Axial Load Limit	20 lb
Radial Shaft Play	0.005 in. maximum
End Shaft Play	0.100 in. maximum
Shaft Runout	0.002 in maximum

### Environmental Specifications

Storage Temperature	-65° C to 125° C
Operating Temperature	-55° C to 125° C
Life Cycling:	
Full Stroke	10,000,000 Cycles
Dither ±1" @60Hz	50,000,000 Cycles

# SA / SC Series SensorCube



## Series SC - How to Order (Note: not all combinations are available)

Example: **SC1NA1A502**

<p><b>SC</b> Series SA: Socket SC: Pin</p>	<p><b>1</b> Electrical Angle (<math>\pm 5^\circ</math>) 1: 300° 2: 270° 3: 240° 5: 120° 6: Special</p>	<p><b>N</b> Mechanical Angle N: 310° C: Continuous</p>	<p><b>A</b> Shaft Extension A: 7/8 Plain B: 7/8 Flatted C: 7/8 Slotted D: 3/4 Plain E: 3/4 Flatted F: 3/4 Slotted X: Special</p>	<p><b>1</b> Anti Rotation Pin 1: A/R Pin Standard 2: No A/R Pin 3: Special A/R Pin</p>	<p><b>A</b> Linearity A: 2%</p>	<p><b>502</b> Total Resistance (Electrical Angle) 102: 1K (120°, 240°) 502: 5K (120°, 240°, 270°, 300°) 103: 10K (120°, 240°, 270°, 300°) 203: 20K (240°, 270°, 300°)</p>
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### Available Models:

SA1CB1A103	SC1CA1A103	SC1NB1A502	SC3CC1A102
SA1CC1A103	SC1CB1A502	SC2CC1A103	SC5CB1A102
SA1NB1A103	SC1CC1A103	SC2NA1A103	SC5CC1A102
SA2NE1A103	SC1CC1A502	SC2NC1A103	SC5NB1A102
SA5NE1A102	SC1NA1A502	SC2NE1A103	

