



Features

- Conductive plastic
- PC board and bushing mount
- Plastic or metal bushing and plastic shaft
- Withstands typical industrial washing processes
- Compact package saves board and panel space



3310 - 9 mm Square Sealed Panel Control

Electrical Characteristics

Standard Resistance Range - Linear	1 K ohms to 1 megohm
Total Resistance Tolerance - Linear Tapers	±20 %
Independent Linearity	±5 %
Absolute Minimum Resistance	2 ohms maximum
Effective Electrical Angle	270 ° ±15 °
Contact Resistance Variation	1 % or 1 ohm (whichever is greater)
Dielectric Withstanding Voltage (MIL-STD-202 – Method 301)	
Sea Level	900 VAC minimum
70,000 Feet	350 VAC minimum
Insulation Resistance	1,000 megohms minimum
Power Rating @ 70 °C (Derate to 0 at 125 °C - Voltage Limited By Power Dissipation or 200 VAC, Whichever is Less)	0.25 watts
Theoretical Resolution	Essentially infinite

Environmental Characteristics

Operating Temperature Range	-40 °C to +125 °C (-40 °F to +257 °F)
Storage Temperature Range	-55 °C to +125 °C (-67 °F to +257 °F)
Temperature Coefficient Over Storage Temperature Range	±1,000 ppm/°C
Vibration	30 G
Total Resistance Shift	±1 % maximum
Voltage Ratio Shift	±1 % maximum
Shock	100 G
Total Resistance Shift	±1 % maximum
Voltage Ratio Shift	±1 % maximum
Load Life	1,000 hours
Total Resistance Shift	±10 % TRS maximum
Rotational Life (No Load)	50,000 cycles
Total Resistance Shift	±5 % TRS maximum
Contact Resistance Variation	3 % or 3 ohms, whichever is greater
Moisture Resistance	MIL-STD-202, Method 103, Condition B
Total Resistance Shift	±10 % TRS maximum
IP Rating	IP67

Mechanical Characteristics

Stop Strength	5.65 N-cm (8 oz.-in.)
Mechanical Angle	300 ° nominal
Torque	
Starting	3.53 N-cm (5.0 oz.-in.) maximum
Running	3.53 N-cm (5.0 oz.-in.) maximum
Mounting (Torque on Bushing)	45 N-cm (4.0 lb.-in.) max [plastic bushing]; 79 N-cm (7.0 lb.-in.) max [metal bushing]
Weight (Single Section)	4.5 grams
(Each Additional Section)	2.5 grams
Terminals	Solderable pins
Soldering Condition	
Manual Soldering	96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wire; 370 °C (700 °F) max. for 3 seconds
Wave Soldering	96.5Sn/3.0Ag/0.5Cu solder with no-clean flux; 260 °C (500 °F) max. for 5 seconds
Wash Processes	For recommended wash processes, please refer to http://www.bourns.com/pdfs/sldclen.pdf
Marking	Manufacturer's trademark, model number, product code, terminal style, resistance code and date code
Ganging	2 cups maximum
Hardware	One lockwasher and one mounting nut is shipped with each potentiometer, except where noted in the part number.
Flammability	Conforms to UL94V-0
Epoxy	Conforms to UL 94V-1
IP Rating	IP67

Switch Characteristics

Switch Life	10K cycles
Contact Resistance	2 ohms max.
Dielectric Strength	350 VDC
Detent Torque	0.5 oz-in min.
Power Rating (Resistive Load)	100 mA @ 16 VDC

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

Additional Features

- Audio taper versions available as special order
- RoHS compliant*

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Standard Resistance Table

Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

Popular values listed in boldface. Consult factory for special resistances.

How To Order

3310 Y - 0 0 1 - 103 L

Model Number Designator _____
 3310 = 9 mm Panel Control

Terminal Style Designator _____
 Single Cup:
 C = In-line Straight Terminals Side Exit 2.54 mm centers
 R = In-line Terminals Rear Exit 2.54 mm centers
 P = 5.08 mm x 2.54 mm Triangular Pattern Rear Exit
 Y = 5.08 mm x 5.08 mm Triangular Pattern Rear Exit

Dual Cup (Pot/Pot or Pot/Switch):
 H = Dual In-line Straight Terminals Rear Exit 2.54 mm centers

Shaft End Designator _____
 0 = Shaft End Slotted
 1 = Shaft End Flatted

Shaft Length Designator _____
 0 = 12.7 mm FMS Long Plastic Shaft (Available w/bushing only)
 1 = 19.05 mm FMS Long Plastic Shaft (Available w/bushing only)
 2 = 5.59 mm FMS Long Plastic Shaft (Bushingless version only)

Bushing Designator _____
 Pot (or Pot/Pot):
 1 = 6.35 mm x 6.35 mm Plastic
 2 = 6.35 mm x 6.35 mm Ni Plated Brass
 5 = Bushingless (Board Level Control)

Pot/Switch Bushing Designator (use with "H" terminal style only.)
 3 = 6.35 mm x 6.35 mm Plastic
 4 = 6.35 mm x 6.35 mm Ni Plated Brass
 6 = Bushingless (Board Level)

Resistance Code _____
 (1st 2 digits are significant, 3rd digit is number of 0s to follow)

RoHS Identifier _____
 L = Compliant

3310 - 9 mm Square Sealed Panel Control

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Product Dimensions

COMMON DIMENSIONS 3310-001

Plastic Bushing
Slotted Shaft



MOUNTING HOLE PATTERN



3310C-001



3310P-001

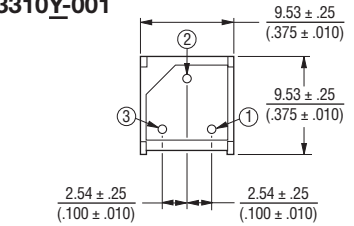


3310R-001



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

3310Y-001



COMMON DIMENSIONS 3310C-101

Plastic Flatted Shaft



The shaft flat position as shown above is at 50 % of the mechanical travel.

3310 - 9 mm Square Sealed Panel Control

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Product Dimensions

COMMON DIMENSIONS 3310-002 Metal Bushing



3310P-025* Bushingsless



3310C-002



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

NOTE: * Only recommended shaft length for bushingsless version

3310 - 9 mm Square Sealed Panel Control

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Product Dimensions

COMMON DIMENSIONS 3310H-003 Pot/Switch Dual Cup Plastic Bushing



3310H-025* Pot/Pot Dual Cup Bushingsless



Pot/Pot Dual Cup

3310H-002 Pot/Pot Dual Cup Metal Bushing



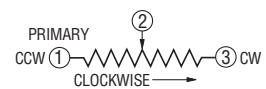
Pot/Switch Dual Cup



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

NOTE: * Only recommended shaft length for bushingsless version

Pot Single Cup



REV. 08/12

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