

Features

- Virtually infinite electrical circuit isolation
- Sealed for board wash
- Metal or plastic shaft options
- RoHS compliant*

Model 96 - 5/8 "Square Sealed Single-Turn Panel Control

Initial Electrical Characteristics ¹	Conductive Plastic Element	Cermet Element			
Standard Resistance Range					
	(B & E) 1 K ohms to 1 megohm	(A & H) 100 ohms to 1 megohm			
	(D,G,S, & T) 1 K ohms to 1 megohm				
Total Resistance Tolerance	10 % or 20 %	5% or 10%			
Independent Linearity	±5 %	±5 %			
Absolute Minimum Resistance	2 ohms maximum	2 ohms maximum			
Effective Electrical Angle	(Linear tapers) 240 ° ± 5 °	(Linear tapers) 240 ° ± 6 °			
-	(Audio tapers) 225 ° ± 5 °	(Audio tapers) 225 ° ± 6 °			
Contact Resistance Variation	(Audio tapers) 225 ° ± 5 °±1 %±1 %	±1 % or 3 ohms (whichever is greater)			
Dielectric Withstanding Voltage (MIL-STD-	-202, Method 301)				
	1,500 VAC minimum				
	500 VAC minimum				
	1,000 megohms minimum	1,000 megohms minimum			
	Dissipation or 350 VAC, Whichever Is Less)				
+70 °C Single Section Assembly	(Linear tapers) 1 watt				
	(Audio tapers) 0.5 watt	(Audio tapers) 1 watt			
+125 °C	(Audio tapers) 0.5 watt 0 watt	0 watt			
Theoretical Resolution	Essentially infinite	Essentially infinite			
Environmental Characteristics ¹					
Operating Temperature Range	40 °C to +125 °C	40 °C to +125 °C			
Storage Temperature Range	55 °C to +125 °C	55 °C to +125 °C			
Temperature Coefficient Over Storage					
Temperature Range	±1,000 ppm/°C	±150 ppm/°C			
Vibration (Single Section)	15 G	15 G			
	±2 % maximum				
Voltage Ratio Shift	±5 % maximum	±5 % maximum			
Shock (Single Section)	30 G	30 G			
	±2 % maximum				
Voltage Ratio Shift	±5 % maximum	±5 % maximum			
	1,000 hours				
	±10 % maximum				
	100,000 cycles				
Total Resistance Shift	(Linear tapers) 10 ohms or ±15 % TRS max	c(All tapers) ±5 % TRS max.			
	(whichever is greater)				
	(Audio tapers) ±20 % maximum				
Contact Resistance Variation					
@ 50,000 cycles	(Linear tapers) ±2 %				
	(Audio tapers) ±3 %	±3 %			
Moisture Resistance (MIL-STD-202, Method 103, Condition B)					
Total Resistance Shift	(Linear tapers) ±10 % TRS maximum (Audio tapers) ±20 % TRS maximum	(All tapers) ±5 % TRS maximum			
Insulation Resistance (500 VDC)	100 megohms minimum	100 megohms minimum			
	IP 65				



WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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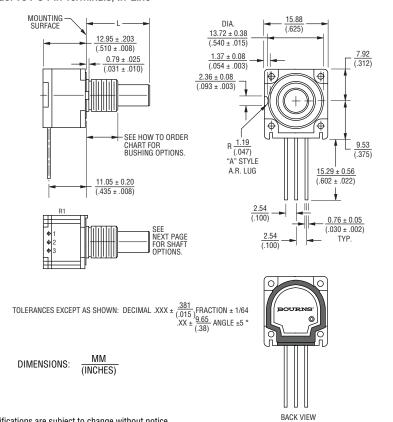
Mechanical Characteristics ¹				
Stop Strength (1/4 " D shaft)				
(1/8 " D shaft)				
Mechanical Angle	33.89 N-cm (3 lbin.) 300 ° ±5 °			
Iorque				
Starting				
Running Torque				
Single or Dual Section (A & R Bushings)	0.21 to 1.06 N-cm (0.3 to 1.5 ozin.) 0.14 to 1.06 N-cm (0.2 to 1.5 ozin.)			
Single or Dual Section (C & U Bushings)				
Mounting				
Variation				
Weight (Single Section, Metal Bushing)				
Terminals	Printed circuit terminals, J-Hooks or solder lugs			
Soldering Condition	Recommended hand soldering using Sn95/Ag5 no clean solder, 0.025 "wire diameter.			
	Maximum temperature 399 °C (750 °F) for 3 seconds. Immersion wash is not recommended.			
Marking	Manufacturer's trademark, date code, resistance, manufacturer's part number			
HardwareOne lockwasher and one mounting nut is shipped with each potentiometer, except where noted in the part number.				

NOTE: Performance specifications do not apply to units subjected to printed circuit board immersion cleaning processes.

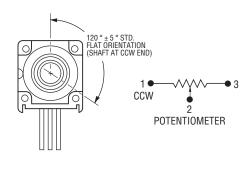
1At room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted.

Product Dimensions

Model 96 PC Pin Terminals, In-Line



Shaft Flat Orientation



Specifications are subject to change without notice.

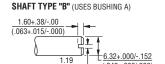
Users should verify actual device performance in their specific applications.

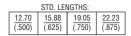
Model 96 - 5/8 "Square Sealed Single-Turn Panel Control

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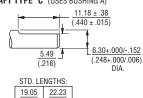
Product Dimensions

Shaft Styles





SHAFT TYPE "C" (USES BUSHING A)

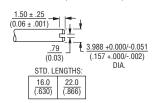


SHAFT TYPE "D" (USES BUSHING C)

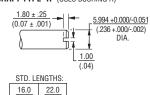


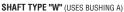
STD. LENGTHS:				
12.70 (.500)	15.88 (.625)	19.05 (.750)		

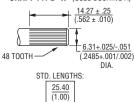
SHAFT TYPE "T" (USES BUSHING U)



SHAFT TYPE "R" (USES BUSHING R)

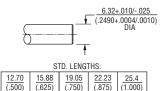




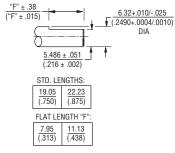


Metal Shaft Styles

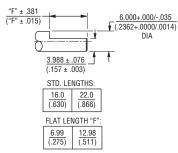
SHAFT TYPE "A" (USES BUSHING A)



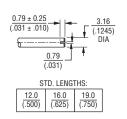
SHAFT TYPE "H" (USES BUSHING A)



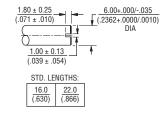
SHAFT TYPE "S" (USES BUSHING R)



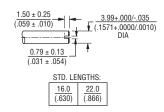
SHAFT TYPE "E" (USES BUSHING C)



SHAFT TYPE "J" (USES BUSHING R)

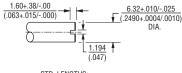


SHAFT TYPE "V" (USES BUSHING U)





SHAFT TYPE "G" (USES BUSHING A)



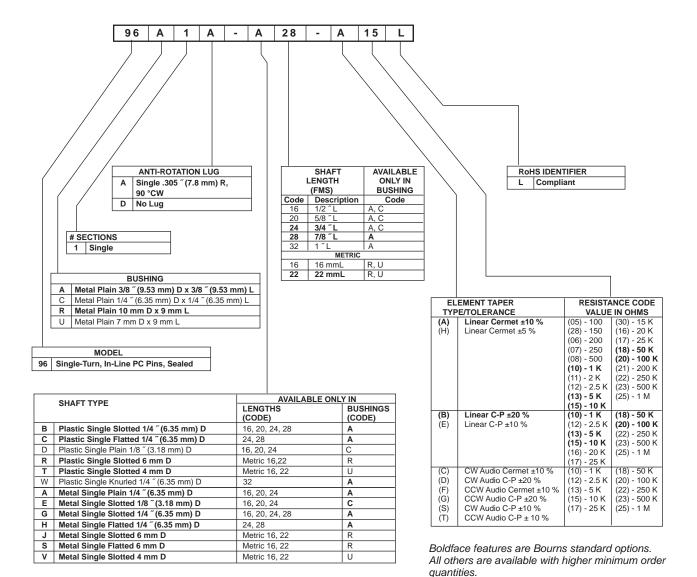
 STD. LENGTHS:

 12.70
 15.88
 19.05
 22.23

 (.500)
 (.625)
 (.750)
 (.875)

How to Order Model 96 Panel Controls

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REV. 10/19

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