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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
Audio Tapers (C, D, F, G, S, & T)	(D,G,S, & T) 1 K ohms to 1 megohm	(C & F) 1 K ohms to 1 megohm
Total Resistance Tolerance	10 % or 20 %	5% or 10%
	±5 %	
	2 ohms maximum	
Effective Electrical Angle	(Linear tapers) 240 ° ± 5 °	(Linear tapers) 240 $^{\circ}$ ± 6 $^{\circ}$
	(Audio tapers) 225 ° ± 5 °	(Audio tapers) 225 $^{\circ}$ ± 6 $^{\circ}$
	±1 %	±1 % or 3 ohms (whichever is greater)
Dielectric Withstanding Voltage (MIL-STD-		
	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	
	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		
	±1,000 ppm/°C	
	15 G	
	±2 % maximum	
	±5 % maximum	
	30 G	
	±2 % maximum	
	±5 % maximum	
	1,000 hours	
	±10 % maximum	
	100,000 cycles	
Total Resistance Shift	(Linear tapers) 10 ohms or ±15 % TRS max (All tapers) ±5 % TRS max. (whichever is greater)	
	(Audio tapers) ±20 % maximum	
Contact Resistance Variation		
@ 50,000 cycles	(Linear tapers) ±2 %	±2 %
	(Audio tapers) ±3 %	
Moisture Resistance (MIL-STD-202, Method		
	(Linear tapers) ±10 % TRS maximum	(All tapers) ±5 % TRS maximum
	(Audio tapers) ±20 % TRS maximum	, ,
Insulation Resistance (500 VDC)	100 megohms minimum	100 megohms minimum
	IP 65	

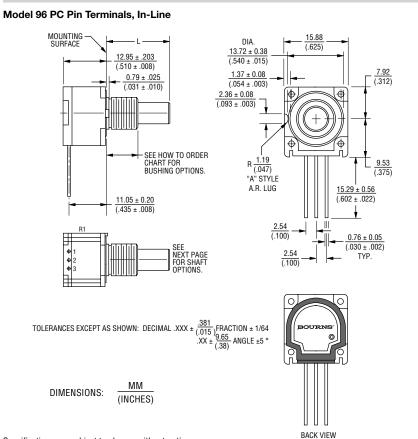
Model 96 -5/8 "Square Sealed Single-Turn Panel Control

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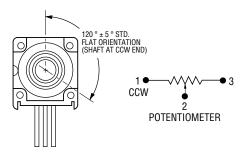
Mechanical Characteristics ¹	
Stop Strength (1/4 " D shaft)	
(1/8 " D shaft)	
Mechanical Angle	300 ° ±5 °
Torque	
Starting	
Running Torque	
Single or Dual Section (A & R Bushings)	
Single or Dual Section (C & U Bushings)	
Mounting	
Variation	0.35 N-cm (0.5 ozin.) maximum in 45 ° shaft travel
Weight (Single 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.
HardwareOne lockwa	sher and one mounting nut is shipped with each potentiometer (Bushing A: H-37-2 & H-38-2;
	Bushing C: H-37-1 & H-38-1; Bushing R: H-37-4 & H-38-9; Bushing U: H-37-3 & H-38-8)

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

Product Dimensions



Shaft Flat Orientation



Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

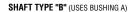
¹ Electrical specifications tested at 200 RPM, at room ambient: +25 °C nominal.

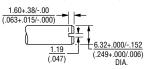
Model 96 - 5/8 "Square Sealed Single-Turn Panel Control

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Product Dimensions

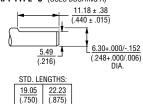
Plastic Shaft Styles

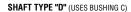




STD. LENGTHS:				
12.70	15.88	19.05	22.23	
(.500)	(.625)	(.750)	(.875)	

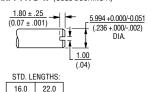
SHAFT TYPE "C" (USES BUSHING A)



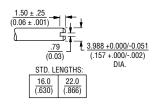


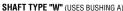


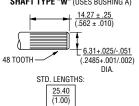
SHAFT TYPE "R" (USES BUSHING R)



SHAFT TYPE "T" (USES BUSHING U)

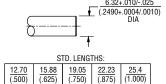




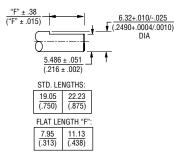


Metal Shaft Styles

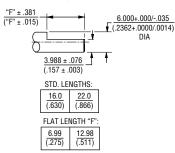
SHAFT TYPE "A" (USES BUSHING A)



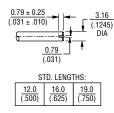
SHAFT TYPE "H" (USES BUSHING A)



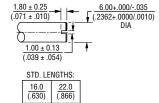
SHAFT TYPE "S" (USES BUSHING R)



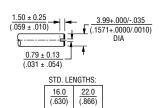
SHAFT TYPE "E" (USES BUSHING C)



SHAFT TYPE "J" (USES BUSHING R)



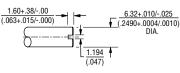
SHAFT TYPE "V" (USES BUSHING U)



TOLERANCES EXCEPT AS SHOWN:
$$XX = \pm \frac{.02}{(.050)}$$

 $.XXX = \pm \frac{.005}{(.127)}$
 $.XXXX = \pm \frac{.0005}{(.0127)}$
DIMENSIONS: $\frac{MM}{(INCHES)}$

SHAFT TYPE "G" (USES BUSHING A)

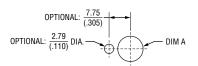


STD. LENGTHS:			
12.70 (.500)	15.88 (.625)	19.05 (.750)	22.23 (.875)
(.500)	(.023)	(.730)	(.073)

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Suggested Panel Layout



BUSHING	DIM A
А	9.91 (.39)
С	6.73 (.265)
R	10.5 (.413)
U	7.5 (.295)

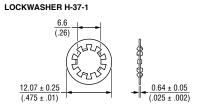
DIMENSIONS: $\frac{N}{(1)(1)}$

MM (INCHES)

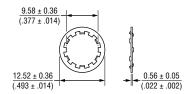
Date Code Description



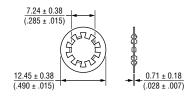
Hardware



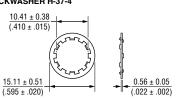
LOCKWASHER H-37-2



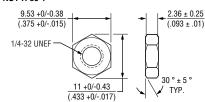
LOCKWASHER H-37-3



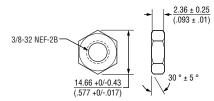
LOCKWASHER H-37-4



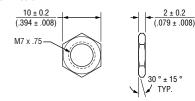
NUT H-38-1



NUT H-38-2



NUT H-38-8



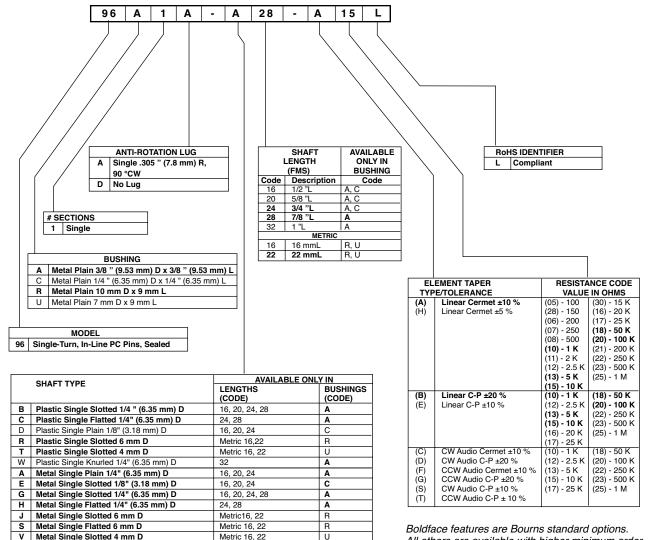
NUT H-38-9

DIMENSIONS:

MM (INCHES)

How to Order Model 96 Panel Controls

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All others are available with higher minimum order quantities.

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