

### **Features**

- Single-turn (3851 and 3852)
- 3-3/4-turn (3856)
- Linear and audio tapers
- Wide resistance range
- Minimal depth package
- Good resolution

# 3851/3852/3856 - 3/4" Diameter Panel Control

Initial Electrical Characteristics <sup>1</sup>		
	3851	3852/3856
Standard Desigtance Dange	Conductive Plastic Element	Cermet Element
Standard Resistance Range	1 K to 1 megohm	100 ohms to 1 mosohm
	1 K to 1 megohm	
	±10 % or ±20 %	
	±10 % 01 ±20 %±10 %	
	2 ohms maximum	
	(Linear tapers) 250 ° ±5 °	
Lifective Electrical Arigie	(Audio tapers) 225 ° ±5 °	
Contact Resistance Variation	±1 %	±3 % of total resistance or 3 ohms
	_	(whichever is greater)
Dielectric Withstanding Voltage (MIL-STI	D-202, Method 301)	(·····································
	900 VAC minimum	900 VAC minimum
	350 VAC minimum	
	1,000 megohms minimum	
	Dissipation or 350 VAC, Whichever Is Less)	,
+70 °C	(Linear tapers) 1 watt	(Linear tapers) 2 watts
	(Audio taners) 0.5 watt	
+125 °C	0 watt	
+150 °C		
Theoretical Resolution	Essentially Infinite	Essentially Infinite
Environmental Characteristics <sup>1</sup>		
	4.004. 405.00	4.00 1. 405.00
	1 °C to +125 °C	
Storage Temperature Range	-65 °C to +125 °C	65 °C to +150 °C
Temperature Coefficient Over	14 000 /00	1450 /00
	±1,000 ppm/°C	
	20 G	
	±2 % maximum	
	±5 % maximum	
	100 G	
	±2 % maximum	
	±5 % maximum	
	1,000 hours	
	±10 % maximum100,000 cycles	
Total Posistanas Chift	±15 % TRS maximum	ZU,UUU CYCIES
	±3 %	±3 %
Moisture Resistance (MIL-STD-202, Meth	±10 % maximum	±2.0/ maximum
	±10 % maximum	
if halliy	IF <del>1</del> V	IF <del>1</del> 0

<sup>&</sup>lt;sup>1</sup> At room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted.



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

# 3851/3852/3856 - 3/4 "Diameter Panel Control

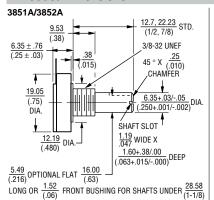
Mechanical Characteristics <sup>1</sup>	
Stop Strength 3851 & 3852	
Mechanical Angle	
Torque (Starting and Running)	A & B bushings 0.35 to 4.23 N-cm (0.05 to 6.0 ozin.)  C & E bushings 0.21 to 4.23 N-cm (0.3 to 6.0 ozin.)
	3856 – 0.11 to 2.12 N-cm (0.15 to 3.0 ozin.)
Mounting (Torque on Bushing) Weight (Single Section)	
Terminals	Printed circuit terminals or solder lugs
Ganging (Multiple Section Potentio	

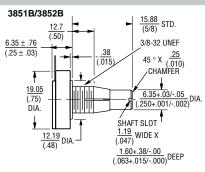
<sup>&</sup>lt;sup>1</sup> At room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted.

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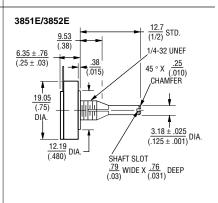
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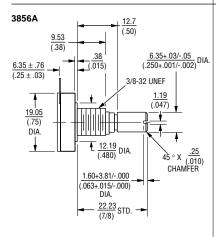
#### **Product Dimensions**

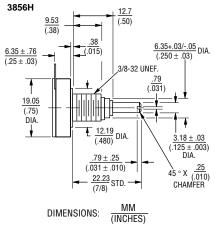




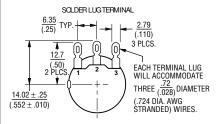
#### 3851C/3852C $\frac{9.53, 22.23}{(3/8, 7/8)}$ STD. (.25) 1/4-32 UNEF $\frac{6.35 \pm .76}{(.25 \pm .03)}$ 45 ° X (.010) CHAMFER .38 2.36 (.094)19.05 (.75) ĎΙΑ. $\frac{3.18 \pm 0.25}{(.125 \pm .001)}$ DIA. 12.19 (.480) DIA. SHAFT SLOT .<u>79</u> WIDE X .<u>76</u> DEEP OPTIONAL FLAT (.010) LONG OR $\frac{1.52}{(.06)}$ FRONT BUSHING FOR SHAFTS UNDER $\frac{15.88}{(5/8)}$

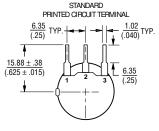






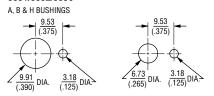
#### **Terminal Configuration**



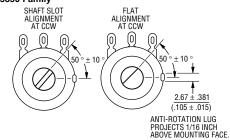


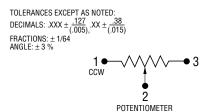


#### 3851/3852/3856



## Shaft End Detail 3850 Family



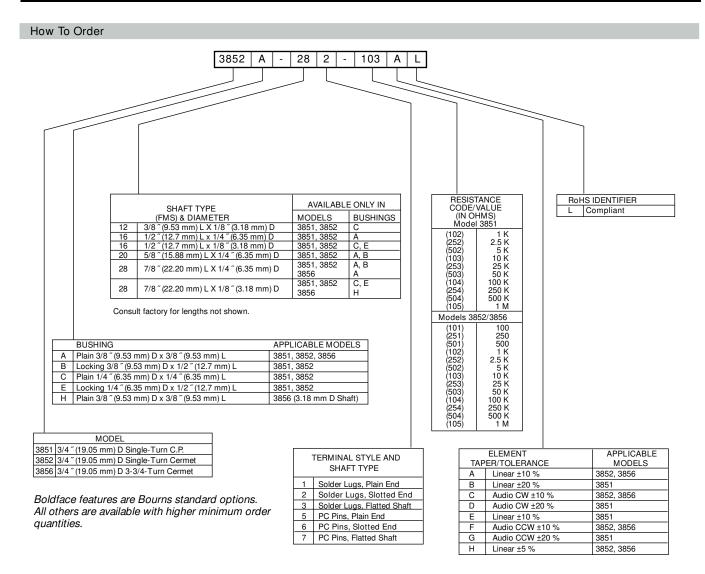


Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

### 3851/3852/3856 - 3/4" Diameter Panel Control

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