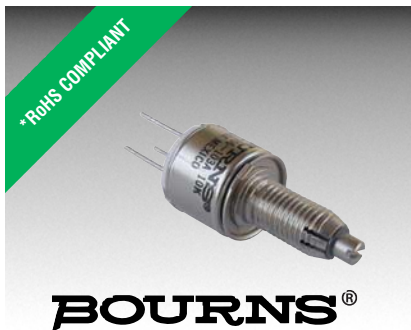




Features

- Small diameter
- Wide resistance range
- Good resolution
- Linear tapers
- Cermet element

3862 - 1/2 " Diameter Single-Turn Panel Control

Initial Electrical Characteristics¹

Standard Resistance Range.....	100 ohms to 1 megohm
Total Resistance Tolerance.....	(A Taper) $\pm 10\%$ (H Taper) $\pm 5\%$
Independent Linearity.....	$\pm 5\%$
Absolute Minimum Resistance.....	2 ohms maximum
Effective Electrical Angle.....	$260^\circ \pm 10^\circ$
Contact Resistance Variation.....	$\pm 3\%$ or 6 ohms (whichever is greater)
Dielectric Withstanding Voltage (MIL-STD-202, Method 301)	
Sea Level.....	750 VAC minimum
70,000 Feet.....	350 VAC minimum
Insulation Resistance (500 VDC).....	1,000 megohms minimum
Power Rating (Voltage Limited by Power Dissipation or 350 VAC, Whichever is Less)	
+70 °C.....	1 watt
+125 °C.....	0 watt
Theoretical Resolution.....	Essentially infinite

Environmental Characteristics¹

Operating Temperature Range.....	-40 °C to +125 °C
Storage Temperature Range.....	-65 °C to +125 °C
Temperature Coefficient Over Storage Temperature Range.....	± 150 ppm/°C
Vibration.....	20 G
Total Resistance Shift.....	$\pm 2\%$ maximum
Voltage Ratio Shift.....	$\pm 6\%$ maximum
Shock.....	50 G
Total Resistance Shift.....	$\pm 2\%$ maximum
Voltage Ratio Shift.....	$\pm 6\%$ maximum
Load Life.....	1,000 hours
Total Resistance Shift.....	$\pm 3\%$ maximum
Rotational Life (C & N Bushing) No Load.....	50,000 cycles
Total Resistance Shift.....	$\pm 5\%$ maximum
Contact Resistance Variation.....	$\pm 3\%$
Moisture Resistance (MIL-STD-202, Method 106, Condition B)	
Total Resistance Shift.....	$\pm 2\%$ maximum
Insulation Resistance (500 VDC).....	100 megohms minimum
Salt Spray.....	MIL-STD-202, Method 101, Condition A
IP Rating.....	IP 40

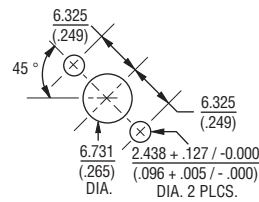
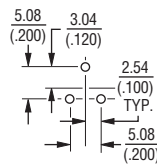
Mechanical Characteristics¹

Stop Strength.....	33 N-cm (3 lb.-in.) maximum
Mechanical Angle.....	$295^\circ \pm 3^\circ$
Torque	
Starting and Running.....	3.53 N-cm (5 oz.-in.) maximum
Mounting (Torque on Bushing).....	1.7-2.0 N-m (15-18 lb.-in.) maximum
Shaft Locking Torque with Locking Bushings.....	14.12 N-cm (20 oz.-in.)
Weight (Single Section).....	25 grams maximum
Terminals.....	Printed circuit pins or J-Hooks
Soldering Condition.....	Recommended hand soldering using Sn85/Ag5 no clean solder, 0.025 " wire diameter Maximum temperature 399 °C (750 °F) for 3 seconds. No wash process to be used with no clean flux. Part can be wave soldered at 260 °C (500 °F) for 5 seconds, no wash process with no clean flux.
Marking.....	Manufacturer's trademark, wiring diagram, date code, resistance, manufacturer's part number
Ganging.....	1 cup maximum
Hardware.....	One lockwasher and one mounting nut is shipped with each potentiometer, except where noted in the part number.

¹ AT ROOM AMBIENT: +25 °C NOMINAL AND 50 % RELATIVE HUMIDITY NOMINAL, EXCEPT AS NOTED.

BOURNS®

PANEL LAYOUT



3862E/T

15.88 STD. (5/8)

11.51 ± .41 (.453 ± .016)

12.07 ± .76 (.475 ± .030)

12.7 ± .41 (.500 ± .016)

DIA.

.89 ± .25 (.035 ± .010)

2 PLCS.

3.18 ± .03 (.125 ± .001)

.79 (.031)

6.25 (1/4)

32 UNEF - 2A

POSITION OF SLOTS VARIABLE

L = 9.53 (.375) FOR "T" BUSHING, 12.7 (.500) FOR "E" BUSHING

45° ± 5° X

.79 ± .25 (.031 ± .010)

3862C/N

Technical drawing of a shaft-hub assembly with dimensions in inches and millimeters.

Key dimensions and features:

- Shaft Dimensions:**
 - Overall length: $11.51 \pm .41$ (453 $\pm$.016)
 - Shaft diameter: $12.7 \pm .41$ (500 $\pm$.016)
 - Keyway width: $1.7 \pm .76$ (.030)
 - Keyway depth: 6.25 (1/4)
 - Keyway thread: -.32 UNEF - 2A
- Hub Dimensions:**
 - Hub length: $9.53, 22.23$ (3/8, 7/8)
 - Hub diameter: $3.18 \pm .03$ (125 $\pm$.001) DIA.
 - Hub bore diameter: $.79$ (.031)
 - Hub bore taper: $45^\circ \pm 5^\circ \times .41$ (.016)
 - Hub bore length: $.79 \pm .25$ (.031 $\pm$.010)
 - Hub bore thread: 16.88 (5/8)
- Assembly Features:**
 - 2 PLCS (Plastic Locking Compound)
 - 2.38 (.094) (Distance from keyway to hub bore)
 - 6.35 (250) (Distance from keyway to hub bore)
 - 3.3 (13) (Distance from keyway to hub bore)
 - OPTIONAL FLAT (250) (Distance from keyway to hub bore)
 - LONG OR (13) (Distance from keyway to hub bore)
- Notes:**
 - FROM BUSHING FOR SHAFTS UNDER (250)
 - L = 6.35 (250) FOR "C" BUSHING, 9.65 (380) FOR "N" BUSHING

45° ± 15°

2.31
(.091) 2 PLCS.

.25
(.010) 2 PLCS.

6.22
(.245) 2 PLCS.

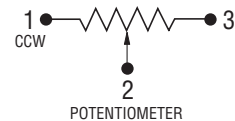
32-1/2° ± 10°

FLAT ORIENTATION
@ CCW END
SLOTS ARE
NOT ORIENTED

Ø OF LUG

Technical drawing of the bottom view of a component. The drawing includes the following dimensions and features:

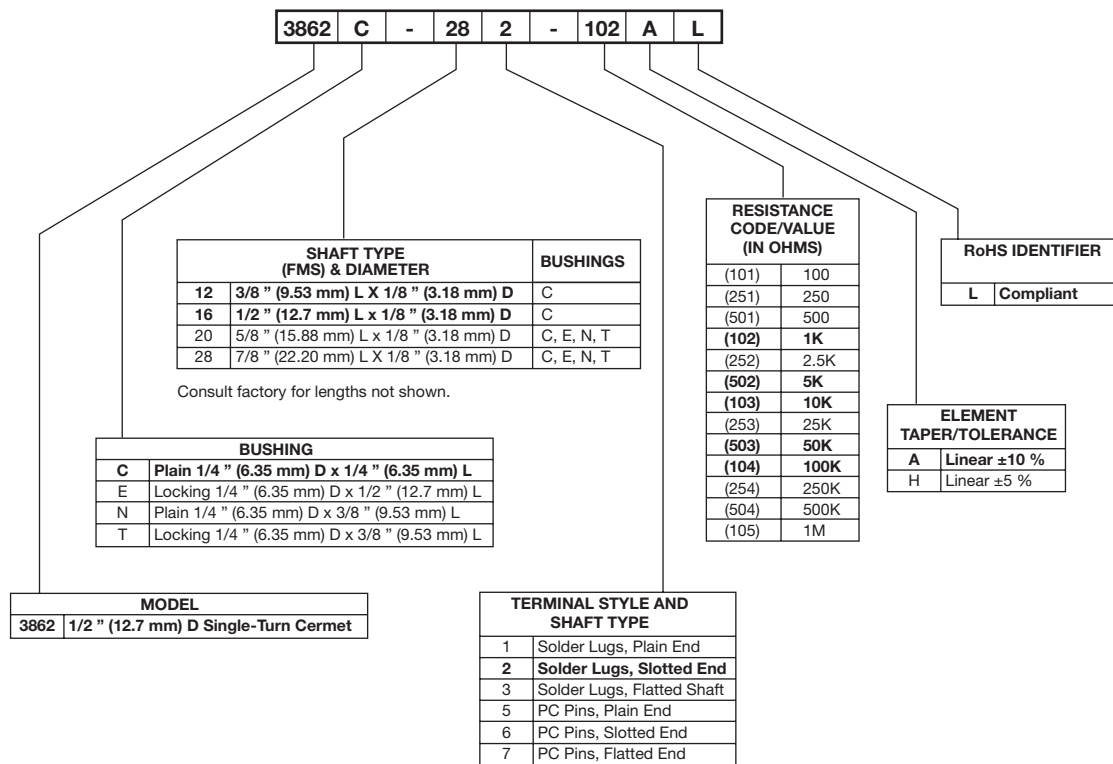
- Top left dimension: 4.953 (.195)
- Top center label: REF ONLY
- Top right dimension: 2.286 (.09) TYP.
- Left side dimension: 8.89 (.35)
- Bottom left dimension: 5.08 (.020)
- Bottom center dimension: 2.54 (.10)
- Right side dimension: .762 (.03) TYP.
- Far right dimension: 6.53 (.250) MAX.
- Central circular feature with three numbered points: 1, 2, and 3.



Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

How to Order 3862 Series Panel Controls

BOURNS®



Boldface features are Bourns standard options. All others are available with higher minimum order quantities.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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