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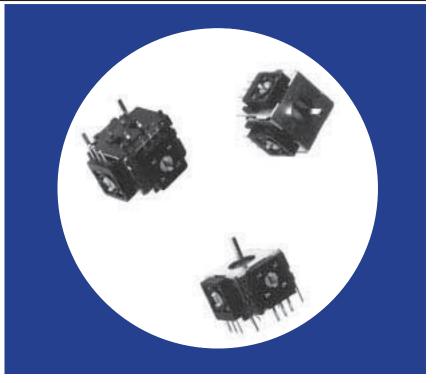


# Series 252 Data Sheet Mini-joystick

## Two Axis, Mini-joystick With Momentary Switch

#### **Features**

- Compact Size (20x21x13mm)
- Long Life 1 Million Cycles
- Optional momentary switch is operational at all rotations
- Sturdy metal case with convenient mounting tabs
- RoHS compliant



Pat. No: US 6,353,430, Taiwan: 128688.

### **Electrical and Mechanical Specifications**

#### Potentiometer 1 & 2

#### Resistance Range

10 K ohms through 200 K ohms

#### **Resistance Tolerance**

Standard: ±30%

Special: ±10%, ± 20% available

#### **Dielectric Strength**

250 VAC 50/60 Hz for 1 minute

#### **Insulation Resistance**

100 Megohms @ 250 VDC for 1 minute

#### **Operational Torque**

200 ± 80 gf.cm

#### **Power Rating**

0.0125 watt @ 50°C, Derated to no load at 85°C

#### **Operating Voltage**

50 VAC or 5 VDC maximum

#### **Angle of Rotation**

60° maximum

#### Life

1,000,000 cycles

#### **Available Switch**

#### **Type**

Momentary

#### **Contact Resistance**

100 milliohms maximum initially 200 milliohms max after 500,000 cycles switching 5 mA @ 5 VDC

#### **Dielectric Strength**

250 VAC 50/60 Hz for 1 minute

#### **Insulation Resistance**

100 Megohms minmum @ 100 VDC

#### **Operational Force**

 $800 \pm 200 \text{ gf}$ 

#### **Power Rating**

5 VDC, 50 mA maximum

#### **Travel**

 $0.9 \pm 0.4$ mm

#### **Switch Life**

500,000 cycles

### **Electrical and Mechanical Specifications**

#### Potentiometer 1 & 2

#### **Operating Temperature**

-10°C to +70°C

### **Soldering Conditions**

260 ± 5°C for 5 seconds

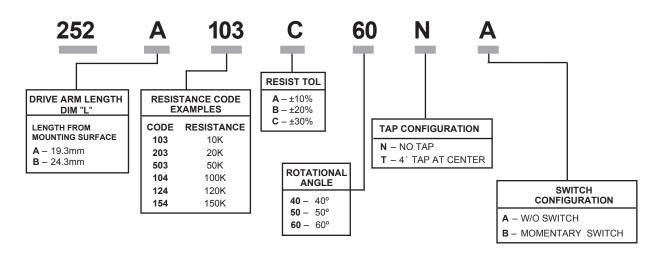
#### **Mounting Information**

**PC Terminals** 

### CTS Series 252 OPERATION ANGLE 53°~63° (ALL DIRECTION) DIM "L" CENT. $0.3^{+0.1}_{-0.0}$ (4) 4.50 Ø1.0<sup>+0.1</sup><sub>-0.0</sub>(6) 3.3±0.3 0.8±0.1(6) 6 SWITCH CIRCUIT DIAGRAM CENT. 5.00 16.0 CENT (4) HOLES FOR OPTIONAL SWITCH TERMINALS MOUNTING HOLE DETAIL VIEWED FROM MOUNTING SIDE

DIMENSION: mm inch

## **Ordering Information**



VR 2

9.5 CENT.