

Series 221 Data Sheet Rotary DIP Switch

10x10mm Compact Rotary DIP Switch

Features

Optimized Mechanical Features

- Standard through hole and surface mount gull-wing terminal configurations
- · Binary Coded Decimal and Hexadecimal Output
- · Clockwise or counterclockwise rotation
- Washable

Optimized Contact System

- · Robust wiping contact
- · Precise detents
- · Gold plated beryllium copper contacts

Materials

- · Tin coated terminals for better solderability
- High temperature materials (UL94V-0)
- RoHS compliant



Electrical and Mechanical Specifications

Switch Options

10,16 positions

Output Code

Binary Coded Decimal Hexadecimal

Switch Contact Resistance

80 milliohms maximum

Insulation Resistance

1000 Megohms minimum between insulated terminals

Dielectric Strength

350 VAC for 1 minute between adjacent terminals

Maximum Rating

100 mA 50 VDC

Minimum Load

1µA 20 mV

Operating Temperature

- 40°C to +85°C

Rotational Torque

144~432 gf-cm

Actuation Life

20,000 steps

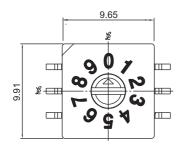
Allowable Solder Time

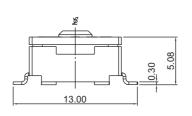
Reflow soldering up to 10 seconds at 260°C max. Wave soldering up to 10 seconds at 260°C max. Manual soldering up to 5 seconds at 350°C max.

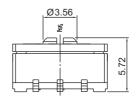
Packaging

Through Hole Switch: Anti-static tube packaging Surface Mount Switch: Tape and reel packaging

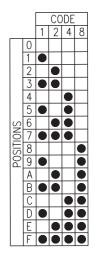
CTS SERIES 221AM - Surface Mount Gull Wing







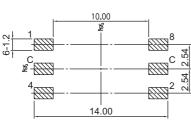
CODE TABLE

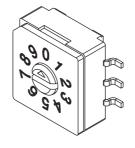


Dot indicates terminal to common connection. All switches are continuous rotation.

10 Position - Numbered 0 through 9 16 Position - Numbered 0 through F

PCB LAYOUT

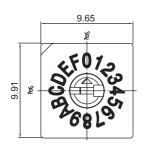


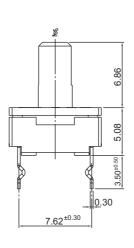


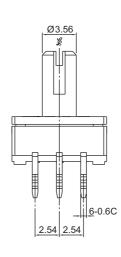
DIMENSION : mm STANDARD TOLERANCE : .XX (2 PLACE) : ±0.30

CTS SERIES 221AD - Standard Through Hole

CODE TABLE





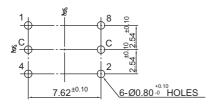


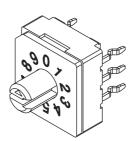


Dot indicates terminal to common connection. All switches are continuous rotation.

10 Position - Numbered 0 through 9 16 Position - Numbered 0 through F

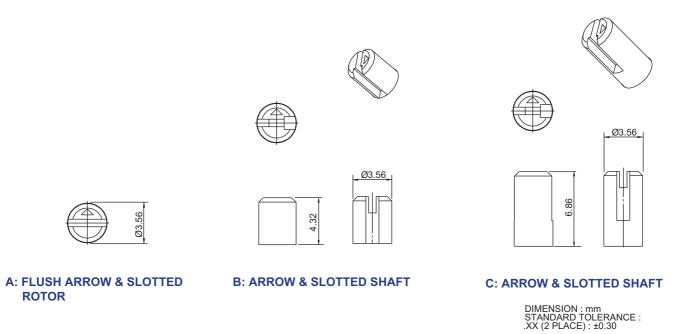
PCB LAYOUT





DIMENSION: mm STANDARD TOLERANCE: .XX (2 PLACE): ±0.30

Actuator Options



Ordering Information

