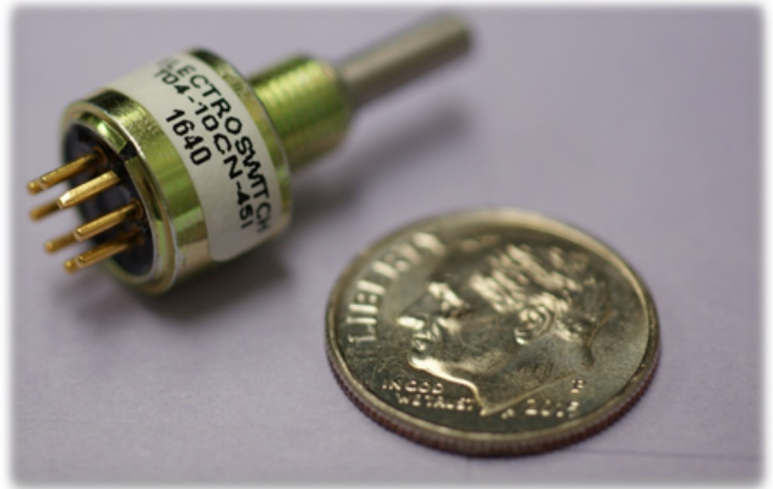


## Sub-Miniature Rotary Switches

The Sub-Miniature T04 is an economically priced and sealed rotary switch. Its compact design is less than 1/2" in diameter and requires less than 3/8" depth behind panel, making it ideal for handheld devices.

### T04 Series

- Economically priced
- Less than 1/2" diameter
- Requires less than 3/8" depth
- IP65 Sealed
- Ideal for handheld devices



**Compact Size**



**Environmentally Sealed**

**Economically Priced**



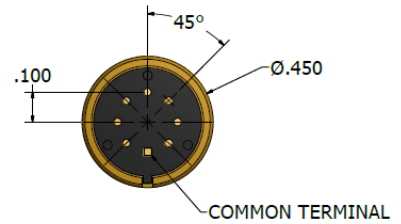
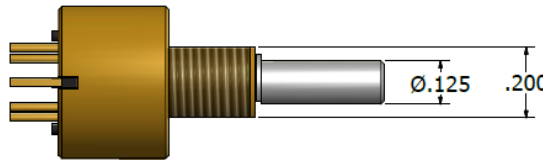
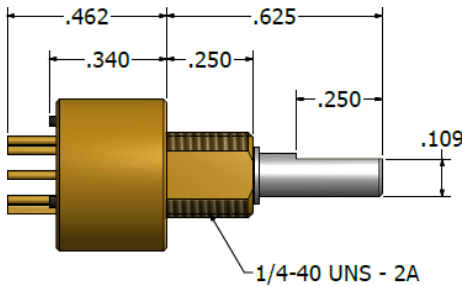
**Electroswitch**  
**Phone: 888-768-2797**  
**sales@electro-nc.com**



# Sub-Miniature Rotary Switches

The T04 Series rotary switches deliver economical sub-miniature solutions for applications that require reliable multiple-position, positive detents, and tactile feedback in a durable sealed small package.

| Catalog No.  | Poles | Positions    | Sealing | Contacts     | Index Angle |
|--------------|-------|--------------|---------|--------------|-------------|
| T04-10CN-45I | 1     | 8 Continuous | IP65    | Non-Shorting | 45°         |
| T04-102N-45I | 1     | 2 positions  | IP65    | Non-Shorting | 45°         |
| T04-103N-45I | 1     | 3 positions  | IP65    | Non-Shorting | 45°         |
| T04-104N-45I | 1     | 4 positions  | IP65    | Non-Shorting | 45°         |
| T04-105N-45I | 1     | 5 positions  | IP65    | Non-Shorting | 45°         |
| T04-106N-45I | 1     | 6 positions  | IP65    | Non-Shorting | 45°         |
| T04-107N-45I | 1     | 7 positions  | IP65    | Non-Shorting | 45°         |
| T04-108N-45I | 1     | 8 positions  | IP65    | Non-Shorting | 45°         |



## Electrical Characteristics

- Voltage: 10 mA @ 1 VDC (resistive load) 500 mA @ 125 VAC (resistive load)
- Contact Resistance: 100 milliohms max. after life, (50 milliohms initial) Break Before Make (non-shorting) Contacts
- Insulation Resistance: 10,000 megohms min. (50,000 megohms min initial @100 Volts)
- Dielectric Breakdown Voltage: 500 VAC min.
- Current Carrying Capacity: .5 amps

## Mechanical Characteristics

- Rotational Torque: 2 to 4 inch-ounces initial room ambient
- Stops: Fixed, from 2 to 8 positions as required or continuous rotation
- Life Expectancy: 10,000 Cycles
- Materials:

- Housing : Brass
- Shaft: Stainless Steel
- Rotor Contact: Brass, Hard Gold Plate over Nickel Plate
- Common Ring: Phosphorous Bronze, Hard Gold Plate over Nickel Plate
- Terminals: Copper Alloy, Hard Gold Plate over Nickel Plate



## T05 Type

T05 Series offers a customized product at economical prices. Only .362 in diameter, this series offers definite detent switching action with options that include a boot seal which prohibits contamination of contacts during cleaning. T05 enclosed rotary switch offers distinctive options and customization at competitive prices.

## Specifications

### Electrical Characteristics

#### Voltage

10 mA @ 1 VDC (resistive load)  
500 mA @ 125 VAC (resistive load)

#### Contact Resistance

100 milliohms max. after life, (50 milliohms initial) Break Before Make (non-shorting) Contacts

#### Insulation Resistance

10,000 megohms mm. (50,000 megohms mm initial @100 Volts)

#### Dielectric Breakdown Voltage

500 VAC mm.

#### Life Expectancy

2500 Cycles

#### Current Carrying Capacity

.5 amps

Mechanical Characteristics Rotational Torque - 2 to 4 inch-ounces initial room ambient

#### Detent Angles

450

#### Stops

Fixed, from 2 to 8 positions as required Terminals - See mechanical drawing for contact arrangement

#### Materials

Switch Base/Index Polyester, glass filled

#### Shaft

Acetal, homopolymer

#### Detent Balls

Steel, Nickel Plated

#### Rotor Contact

Brass, hard Gold Plate over Nickel Plate

#### Common Ring

Phosphor Bronze, hard Gold Plate over Nickel Plate

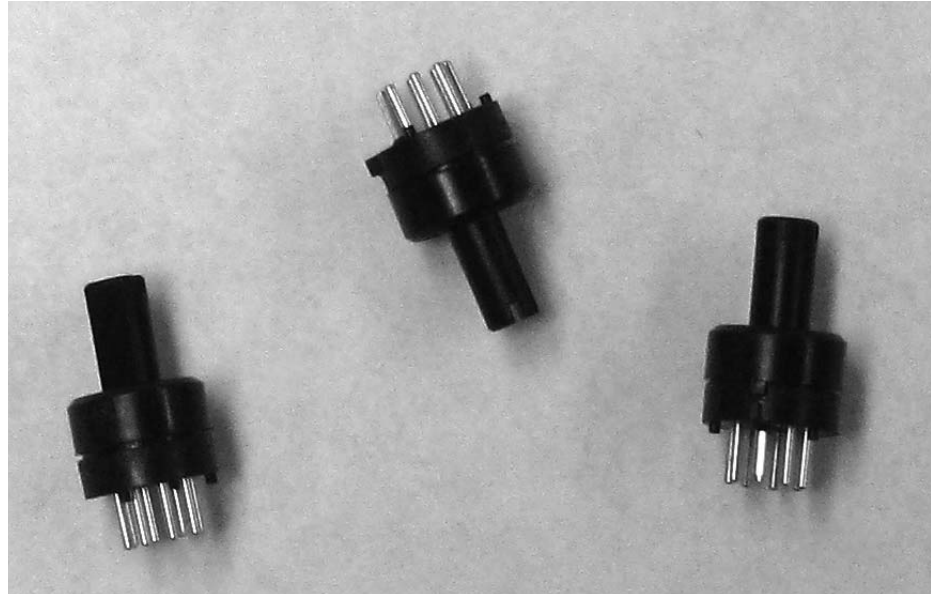
#### Terminals

Copper Alloy, hard Gold Plate over Nickel Plate  
Shaft and Panel Seal

Ethylene Propylene

#### Options

- Screwdriver or Knob Actuated
- 2 to 8 Positions or Continuous
- Off Position at 1 or B



| Rotation                        | Number of Positions                                                                                                                                                 | Travel                                             |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Continuous                      | Off, 1, 2, 3, 4, 5, 6, 7                                                                                                                                            | 360°                                               |
| Stops:<br>Off Position @ CCW    | Off, 1, 2, 3, 4, 5, 6, 7<br>Off, 1, 2, 3, 4, 5, 6<br>Off, 1, 2, 3, 4, 5<br>Off, 1, 2, 3, 4<br>Off, 1, 2, 3<br>Off, 1, 2<br>Off, 1                                   | 315°<br>270°<br>225°<br>180°<br>135°<br>90°<br>45° |
| Stops:<br>Off Position @ 8 Only | 1, 2, 3, 4, 5, 6, 7, Off<br>1, 2, 3, 4, 5, 6, 7 No Off<br>1, 2, 3, 4, 5, 6, No Off<br>1, 2, 3, 4, 5, No Off<br>1, 2, 3, 4, No Off<br>1, 2, 3 No Off<br>1, 2, No Off | 315°<br>270°<br>225°<br>180°<br>135°<br>90°<br>45° |

## Ordering the T05 Series Enclosed Rotary Switches

