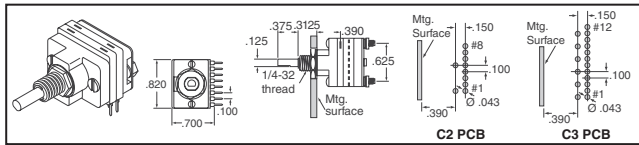


## C2/C3 Series Rotary Switches 1/4 Amp

The C2/C3 series offers an 8 position and a 12 position vertical PC board mountable design. **Specifications: Electrical:** • Current and Voltage Ratings: 0.25 amp @ 28VDC • Dielectric Strength: 1,000VAC • Contact Resistance: Average initial 30mΩ • Insulation Resistance: In excess of 10,000MΩ • Mechanical: • Terminal and Contacts: Brass with silver plate • Insulation: Polyester • Index Life: 25,000 cycles minimum • Index Angle: 30° • Index Stop: Adjustable • Stop Strength: 8 inches/pound minimum • Hardware: Mounting nut and lockwasher are shipped assembled.



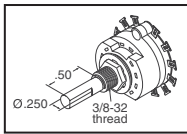
| Poles                                     | Active Positions | Poles/Deck | No. of Decks | Shorting | Digi-Key Part No. | Price Each | 10    | 50    | Electroswitch Part No. |
|---|------------------|------------|--------------|----------|-------------------|------------|-------|-------|------------------------|
| <b>C2 Series — 8 Pin — RoHS Compliant</b> |                  |            |              |          |                   |            |       |       |                        |
| 1   | 2-8              | 1          | 1            | No       | 451-1002-ND       | 18.50      | 14.80 | 12.95 | C2P0108N-A             |
| 2   | 2-8              | 1          | 2            | No       | 451-1004-ND       | 22.25      | 17.80 | 15.58 | C2P0208N-A             |
| 2   | 2-4              | 2          | 1            | No       | 451-1003-ND       | 18.50      | 14.80 | 12.95 | C2P0204N-A             |
| <b>C3 Series — 12 Pin</b>                 |                  |            |              |          |                   |            |       |       |                        |
| 1   | 2-12             | 1          | 1            | No       | 451-1005-ND       | 18.50      | 14.80 | 12.95 | C3P0112N-A             |
| 1   | 2-12             | 1          | 2            | No       | 451-1007-ND       | 22.25      | 17.80 | 15.58 | C3P0212N-A             |
| 2   | 2-6              | 2          | 1            | No       | 451-1006-ND       | 18.50      | 14.80 | 12.95 | C3P0206N-A             |
| 3   | 2-4              | 3          | 1            | No       | 451-1008-ND       | 18.50      | 14.80 | 12.95 | C3P0304N-A             |
| 4   | 2-6              | 2          | 2            | No       | 451-1009-ND       | 22.25      | 17.80 | 15.58 | C3P0406N-A             |
| 6   | 2-4              | 3          | 2            | No       | 451-1010-ND       | 22.25      | 17.80 | 15.58 | C3P0604N-A             |

• RoHS Compliant

## C4 Series Rotary Switches 1/2 Amp

The C4 Series provides a versatile, fully enclosed design, that helps keep dirt and moisture out of the contact area while locking in lifetime lubricants.

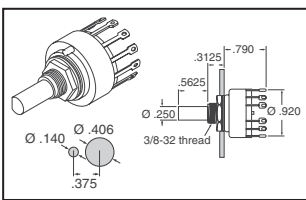
**Specifications: Electrical:** • Current and Voltage Rating: 0.5 amp @ 28VDC; 0.3 amp @ 125VAC • Dielectric Strength: 1,000VAC • Contact Resistance: Average initial 3mΩ • Insulation Resistance: In excess of 10,000MΩ • Mechanical: • Terminals and Contacts: Brass with silver-plate • Index Life: 25,000 cycles minimum • Index Angle: 30° Standard, 36°, 45°, 60°, and 90° available • Index Stop: Adjustable • Stop Strength: 25 inches/pound minimum • Insulation: Diallyl phthalate • Hardware: Mounting nut and lockwasher are shipped assembled.



| Poles | Active Positions | Poles/Deck | No. of Decks | Shorting | Digi-Key Part No. | Price Each | 10    | 50    | Electroswitch Part No. |
|-------|------------------|------------|--------------|----------|-------------------|------------|-------|-------|------------------------|
| 1     | 2-12             | 1          | 1            | No       | 451-1011-ND       | 15.75      | 12.60 | 11.03 | C4D0112N-A             |
| 2     | 2-06             | 2          | 1            | No       | 451-1012-ND       | 15.75      | 12.60 | 11.03 | C4D0206N-A             |
| 2     | 2-12             | 1          | 2            | No       | 451-1013-ND       | 20.25      | 16.20 | 14.18 | C4D0212N-A             |
| 3     | 2-12             | 1          | 3            | No       | 451-1015-ND       | 23.75      | 19.00 | 16.63 | C4D0312N-A             |
| 3     | 2-04             | 3          | 1            | No       | 451-1014-ND       | 16.50      | 13.20 | 11.55 | C4D0304N-A             |
| 4     | 2-12             | 1          | 4            | No       | 451-1017-ND       | 29.00      | 23.20 | 20.30 | C4D0412N-A             |
| 4     | 2-06             | 2          | 2            | No       | 451-1016-ND       | 20.25      | 16.20 | 14.18 | C4D0406N-A             |
| 5     | 2-12             | 1          | 5            | No       | 451-1018-ND       | 33.50      | 26.80 | 23.45 | C4D0512N-A             |
| 6     | 2-06             | 2          | 3            | No       | 451-1020-ND       | 24.50      | 19.60 | 17.15 | C4D0606N-A             |
| 6     | 2-04             | 3          | 2            | No       | 451-1019-ND       | 20.25      | 16.20 | 14.18 | C4D0604N-A             |
| 6     | 2-12             | 1          | 6            | No       | 451-1021-ND       | 38.00      | 30.40 | 26.60 | C4D0612N-A             |
| 8     | 2-06             | 2          | 4            | No       | 451-1022-ND       | 29.75      | 23.80 | 20.83 | C4D0806N-A             |
| 10    | 2-06             | 2          | 5            | No       | 451-1024-ND       | 35.00      | 28.00 | 24.50 | C4D1006N-A             |
| 12    | 2-04             | 3          | 4            | No       | 451-1025-ND       | 31.00      | 24.80 | 21.70 | C4D1204N-A             |
| 15    | 2-04             | 3          | 5            | No       | 451-1026-ND       | 36.25      | 29.00 | 25.38 | C4D1504N-A             |

## C5 Series Rotary Switches 1.0 Amp

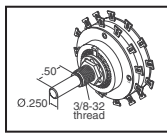
The C5 Series offers a very economical and lightweight design. Standard features include 30° indexing up to 12 positions, solder lug terminals, and both internal and external seals for washability. **Specifications: Electrical:** • Current and Voltage Rating: 1 amp @ 28VDC; 1 amp @ 125VAC • Dielectric Strength: 1,000VAC • Contact Resistance: Average initial 20mΩ • Insulation Resistance: In excess of 10,000MΩ • Mechanical: • Terminals and Contacts: Brass with silver-plate • Index Life: 25,000 cycles minimum • Index Angle: Positive 30° • Index Stop: Adjustable • Stop Strength: 4.5 inches/pound minimum • Insulation: Polyester • Hardware: Mounting nut and lockwasher are shipped assembled.



| Poles                                | Active Positions | Poles/Deck | No. of Decks | Shorting | Digi-Key Part No. | Price Each | 10   | 50   | Electroswitch Part No. |
|--------------------------------------|------------------|------------|--------------|----------|-------------------|------------|------|------|------------------------|
| <b>C5 Series — Sealed Solder Lug</b> |                  |            |              |          |                   |            |      |      |                        |
| 1                                    | 2-12             | 1          | 1            | No       | 451-1027-ND       | 9.25       | 7.40 | 6.48 | C5P0112N-A             |
| 2                                    | 2-06             | 2          | 1            | No       | 451-1028-ND       | 10.00      | 8.00 | 7.00 | C5P0206N-A             |
| 3                                    | 2-04             | 3          | 1            | No       | 451-1029-ND       | 10.50      | 8.40 | 7.35 | C5P0304N-A             |
| 4                                    | 2-03             | 4          | 1            | No       | 451-1030-ND       | 11.00      | 8.80 | 7.70 | C5P0403N-A             |

## C7 Series Rotary Switches 1.0 Amp

The C7 Series provides a fully enclosed, modular design that enables switching up to 24 positions. Our standard design offers 15° indexing and solder lug terminals. **Specifications: Electrical:** • Current and Voltage Rating: 1.0 amp @ 28VDC; 0.5 amp @ 125VAC • Dielectric Strength: 1,000VAC between current carrying parts and ground • Contact Resistance: Average initial 3mΩ • Insulation Resistance: In excess of 10,000MΩ • Mechanical: • Terminals and Contacts: Brass with silver-plate as standard • Insulation: Diallyl phthalate • Index Life: 25,000 cycles minimum • Index Stop: Adjustable • Stop Strength: 25 inches/pound minimum • Hardware: Mounting nut and lockwasher are shipped assembled.

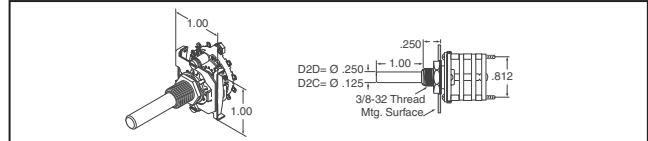


| Poles | Active Positions | Poles/Deck | No. of Decks | Shorting | Digi-Key Part No. | Price Each | 10    | 50    | Electroswitch Part No. |
|-------|------------------|------------|--------------|----------|-------------------|------------|-------|-------|------------------------|
| 1     | 23               | 1          | 1            | No       | 451-1035-ND       | 23.75      | 19.00 | 16.63 | C7D0123N               |
| 2     | 23               | 1          | 2            | No       | 451-1037-ND       | 37.25      | 29.80 | 26.08 | C7D0223N               |
| 1     | 24               | 1          | 1            | No       | 451-1036-ND       | 23.75      | 19.00 | 16.63 | C7D0124N-C             |
| 2     | 24               | 1          | 2            | No       | 451-1038-ND       | 37.25      | 29.80 | 26.08 | C7D0224N-C             |

## D2 Series Rotary Switches .55 Amp

The D2 Series switch is used where space is at a premium. This dual ball side thrust index offers exceptional torque control. Standard designs utilize diallyl phthalate or ceramic insulation, solder lug terminals, and 30° adjustable stop indexing.

**Specifications: Electrical:** • Current and Voltage Rating: 0.55 amp @ 28VDC; 0.25 amp @ 115VAC • Current Carrying Capacity: 7 amps • Dielectric Strength: 750VAC between current carrying parts and ground • Contact Resistance: Average initial 5mΩ • Insulation Resistance: Diallyl in excess of 900,000MΩ, Ceramic in excess of 1,000,000MΩ • Mechanical: • Clips and Rotors: Brass with silver-plate as standard • Insulation: Diallyl phthalate or ceramic • Index Life: 25,000 cycles minimum • Index Angle: Positive 30° • Index Stop: Adjustable standard • Stop Strength: 10 inches/pound minimum • Hardware: Mounting nut and lockwasher are shipped assembled.



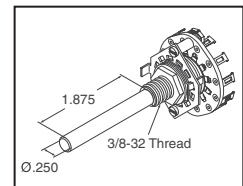
| Poles | Active Positions | Poles/Deck | No. of Decks | Shorting | Digi-Key Part No. | Price Each | 10    | 50    | Electroswitch Part No. |
|-------|------------------|------------|--------------|----------|-------------------|------------|-------|-------|------------------------|
| 1     | 2-12             | 1          | 1            | No       | 451-1056-ND       | 35.48      | 29.03 | 25.80 | D2D0112N               |
| 2     | 2-06             | 2          | 1            | No       | 451-1057-ND       | 35.48      | 29.03 | 25.80 | D2D0206N               |
| 2     | 2-12             | 1          | 2            | No       | 451-1058-ND       | 47.03      | 38.48 | 34.20 | D2D0212N               |
| 3     | 2-05             | 3          | 1            | No       | 451-1059-ND       | 35.48      | 29.03 | 25.80 | D2D0305N               |
| 3     | 2-12             | 1          | 3            | No       | 451-1060-ND       | 54.25      | 43.40 | 37.98 | D2D0312N               |
| 4     | 02-06            | 2          | 2            | No       | 451-1061-ND       | 42.75      | 34.20 | 29.93 | D2D0406N               |
| 6     | 02-05            | 3          | 2            | No       | 451-1062-ND       | 42.75      | 34.20 | 29.93 | D2D0605N               |
| 6     | 02-06            | 2          | 3            | No       | 451-1063-ND       | 54.25      | 43.40 | 37.98 | D2D0606N               |
| 1     | 02-11            | 1          | 1            | No       | 451-1045-ND       | 45.00      | 36.00 | 31.50 | D2C0111N               |
| 3     | 02-03            | 3          | 1            | No       | 451-1048-ND       | 45.00      | 36.00 | 31.50 | D2C0303N               |
| 3     | 02-11            | 1          | 3            | No       | 451-1049-ND       | 92.50      | 74.00 | 64.75 | D2C0311N               |
| 4     | 02-05            | 2          | 2            | No       | 451-1050-ND       | 68.75      | 55.00 | 48.13 | D2C0405N               |

• RoHS Compliant

## D4 Series Rotary Switches 1.5 Amp

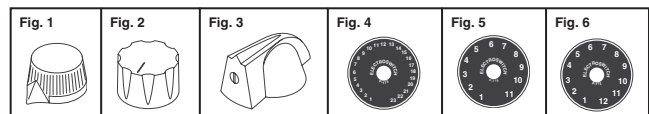
The D4 Series switch is the most economical and versatile switch in our open frame rotary line. This series offers the quality feel of a ball and spring index mechanism.

**Specifications: Electrical:** • Current and Voltage Rating: 1.5 amps @ 28VDC; 0.5 amp @ 115VAC • Dielectric Strength: 1,500VAC • Contact Resistance: Average initial 3.5mΩ • Insulation Resistance: Glass epoxy in excess of 750,000MΩ. Ceramic in excess of 1,000,000MΩ • Mechanical: • Clips and Rotors: Brass with silver-plate as standard. • Index Life: 25,000 cycles minimum • Index Angle: Positive 30° • Stop Strength: 10 inches/pound minimum • Index Stop: Adjustable • Hardware: Mounting nut and lockwasher are shipped assembled.



| Poles | Active Positions | Poles/Deck | No. of Decks | Shorting | Digi-Key Part No. | Price Each | 10    | 50    | Electroswitch Part No. |
|-------|------------------|------------|--------------|----------|-------------------|------------|-------|-------|------------------------|
| 1     | 02-11            | 1          | 1            | No       | 451-1096-ND       | 23.75      | 19.00 | 16.63 | D4G0111N               |
| 2     | 02-11            | 1          | 2            | No       | 451-1098-ND       | 32.25      | 25.80 | 22.58 | D4G0211N               |
| 2     | 02-05            | 2          | 1            | No       | 451-1097-ND       | 23.75      | 19.00 | 16.63 | D4G0205N               |
| 3     | 02-11            | 1          | 3            | No       | 451-1100-ND       | 40.50      | 32.40 | 28.35 | D4G0311N               |
| 3     | 02-03            | 3          | 1            | No       | 451-1099-ND       | 23.75      | 19.00 | 16.63 | D4G0303N               |
| 4     | 02-11            | 1          | 4            | No       | 451-1102-ND       | 48.75      | 39.00 | 34.13 | D4G0411N               |
| 4     | 02-05            | 2          | 2            | No       | 451-1101-ND       | 32.25      | 25.80 | 22.58 | D4G0405N               |
| 1     | 02-12            | 1          | 1            | No       | 451-1087-ND       | 35.75      | 28.60 | 25.03 | D4C0112N               |

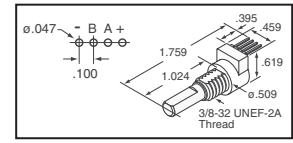
## Rotary Accessories — Knobs and Dial Plates



| Fig. | Description                                  | Digi-Key Part No. | Price Each | 10   | 50 | Electroswitch Part No. |
|------|--|-------------------|------------|------|----|------------------------|
| 1    | Pointer Knob with One Set Screw, .125" Shaft | 451-1122-ND       | 3.25       | 2.60 |    | 1400R                  |
| 2    | Round Knob with One Set Screw, .250" Shaft   | 451-1123-ND       | 9.25       | 7.40 |    | 1914N                  |
| 3    | Pointer Knob with One Set Screw, .250" Shaft | 451-1121-ND       | 2.75       | 2.20 |    | P2300                  |
| 4    | Dial Plate, 1-23 Digit, 1.87" diameter 15°   | 451-1126-ND       | 2.38       | 1.90 |    | P173                   |
| 5    | Dial Plate, 1-11 Digit, 1.87" diameter 30°   | 451-1125-ND       | 3.25       | 2.60 |    | P118                   |
| 6    | Dial Plate, 1-12 Digit, 1.87" diameter 30°   | 451-1124-ND       | 3.25       | 2.60 |    | P112                   |

## 500 Series Magnetic Encoders

The Electroswitch 500 Series Magnetic Encoders are built upon a contact free integrated circuit design. This encoder integrates hall effect sensing and digital signal processing to provide high-resolution angular measurement solutions. **Specification: Electrical:** • Operating Voltage: 4.7 - 5.7 VDC • Supply Current: 30mA max. • Logic Output: VCC High; 0.4 Low • Power Consumption: 165mW max. • Operating Temperature: -40°C - 105°C



Note: Mounting Hardware Included

| Description                | Digi-Key Part No. | Price Each | 10    | 50    | Electroswitch Part No. |
|----------------------------|-------------------|------------|-------|-------|------------------------|
| Quadrature Output, 32 PPR  | 451-1127-ND       | 45.28      | 36.22 | 31.70 | 505Q-0032-S010         |
| Quadrature Output, 64 PPR  | 451-1128-ND       | 45.28      | 36.22 | 31.70 | 505Q-0064-S010         |
| Quadrature Output, 128 PPR | 451-1129-ND       | 45.28      | 36.22 | 31.70 | 505Q-0128-S010         |
| Quadrature Output, 256 PPR | 451-1130-ND       | 45.28      | 36.22 | 31.70 | 505Q-0256-S010         |

More Product Available Online: [www.digikey.com](http://www.digikey.com)

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