

# D3 - SERIES

## SPECIFICATIONS AND ORDERING INFORMATION

1 5/16" DIAMETER 1.5 AMPS @ 28 VDC

The D3 Series was originally designed as a high quality military switch, but is ideal for use in both military and commercial equipment applications. The standard features of this hill and valley design are glass epoxy insulation and a 30° index, with options of ceramic and diallyl insulation and a 60° index.



### SPECIFICATIONS

#### ELECTRICAL

**Current and Voltage Rating:** Make and break resistive load  
1.5 amps @ 28 VDC; 0.5 amp @ 115 VAC.

**Current Carrying Capacity:** 9 amps.

**Dielectric Strength:** 1,000 VAC between current carrying parts and ground.

**Contact Resistance:** Average initial 3.5 milliohms.

**Insulation Resistance:** Glass in excess of 750,000 megohms.  
Ceramic in excess of 1,000,000 megohms.  
Diallyl in excess of 900,000 megohms.

**Hardware:** Mounting nut and lockwasher are shipped assembled.

#### MECHANICAL

**Materials and Finishes:** All parts utilize non-corrosive materials.

**Clips and Rotors:** Silver alloy standard on ceramic.

Brass with silver plate standard on glass.

**Insulation:** Glass epoxy, ceramic, or diallyl phthalate.

**Index:** Single-ball, hill and valley.

**Index Life:** 25,000 cycles minimum.

**Index Torque:** Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

**Index Angles:** Positive 30° standard, 60° available.

**Index Stops:** Adjustable standard, fixed or continuous.

**Stop Strength:** 25 in. lbs. minimum.

### STANDARD PART NUMBER

#### EPOXY GLASS INSULATION - BRASS SILVER PLATE

SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS SET @ 2 POS.

| POLES | ACTIVE POSITIONS | POLES/ SECTION | NO. OF SECTIONS | SHORTING | NON-SHORTING | FIG. * |
|-------|------------------|----------------|-----------------|----------|--------------|--------|
| 01    | 02-11            | 1              | 1               | D3G0111S | D3G0111N     | DA     |
| 02    | 02-11            | 1              | 2               | D3G0211S | D3G0211N     | DA     |
| 02    | 02-05            | 2              | 1               | D3G0205S | D3G0205N     | DH     |
| 03    | 02-11            | 1              | 3               | D3G0311S | D3G0311N     | DA     |
| 03    | 02-03            | 3              | 1               | D3G0303S | D3G0303N     | DM     |
| 04    | 02-05            | 2              | 2               | D3G0405S | D3G0405N     | DH     |
| 06    | 02-03            | 3              | 2               | D3G0603S | D3G0603N     | DM     |
| 06    | 02-05            | 2              | 3               | D3G0605S | D3G0605N     | DH     |

#### CERAMIC INSULATION - SILVER ALLOY - 2.6 AMPS @ 28 VDC

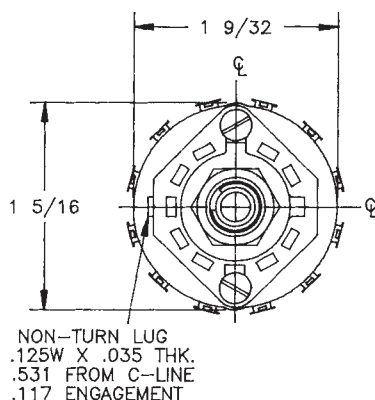
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS SET @ 2 POS.

| POLES | ACTIVE POSITIONS | POLES/ SECTION | NO. OF SECTIONS | SHORTING | NON-SHORTING | FIG. * |
|-------|------------------|----------------|-----------------|----------|--------------|--------|
| 01    | 02-11            | 1              | 1               | D3C0111S | D3C0111N     | DA     |
| 02    | 02-11            | 1              | 2               | D3C0211S | D3C0211N     | DA     |
| 02    | 02-05            | 2              | 1               | D3C0205S | D3C0205N     | DH     |
| 03    | 02-11            | 1              | 3               | D3C0311S | D3C0311N     | DA     |
| 03    | 02-03            | 3              | 1               | D3C0303S | D3C0303N     | DM     |
| 04    | 02-05            | 2              | 2               | D3C0405S | D3C0405N     | DH     |
| 06    | 02-03            | 3              | 2               | D3C0603S | D3C0603N     | DM     |
| 06    | 02-05            | 2              | 3               | D3C0605S | D3C0605N     | DH     |

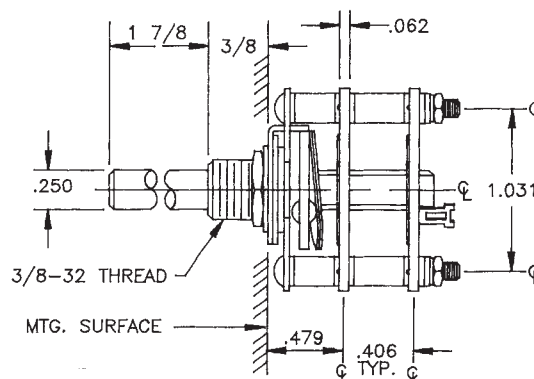
\* FIGURES ARE SHOWN ON PAGES 55 AND 56.

### DIMENSIONS

#### STANDARD CONSTRUCTION



#### D3G - GLASS EPOXY CONSTRUCTION



**ELECTROSWITCH • ELECTRONIC PRODUCTS**  
UNIT OF ELECTRO SWITCH CORP.

2010 Yonkers Road  
Raleigh, NC 27604

Telephone: (888) ROTARYS or (919) 833-0707  
Fax: (800) 909-9171 or (919) 833-8016

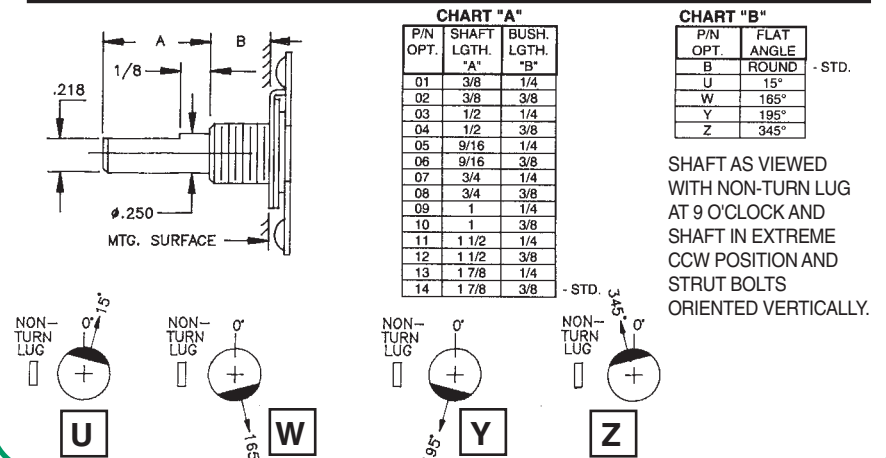
## How to Order Additional Options:

| 2 DIGIT SERIES | INSULATION TYPE                                           | TOTAL POLES | ACTIVE POSITIONS                 | CONTACT TYPE                     | TERMINAL TYPE                   | INDEX ANGLE | STOP TYPE                          | SHAFT/ BUSHING | SHAFT FLAT    |
|----------------|-----------------------------------------------------------|-------------|----------------------------------|----------------------------------|---------------------------------|-------------|------------------------------------|----------------|---------------|
| D3             | G - GLASS<br>C - CERAMIC<br>(SILVER ALLOY)<br>D - DIALLYL | 01 - MIN.   | 12 - MAX @ 30°<br>06 - MAX @ 60° | N - NON SHORTING<br>S - SHORTING | L - SOLDER LUG<br>R - REAR P.C. | 30°<br>60°  | A - ADJ.<br>F - FIXED<br>C - CONT. | SEE CHART "A"  | SEE CHART "B" |

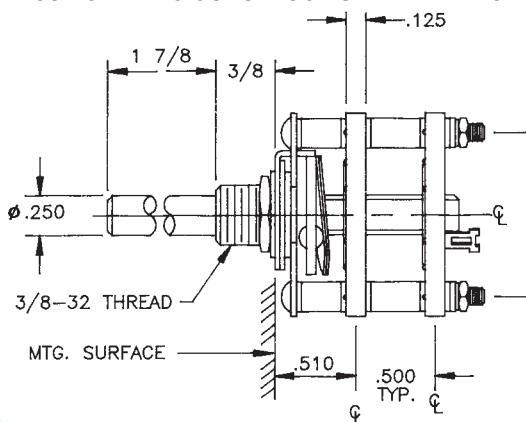
| CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS |          |           |           | ADDITIONAL OPTIONS |           |           |           |
|-------------------------------------------------------|----------|-----------|-----------|--------------------|-----------|-----------|-----------|
| <b>D</b>                                              | <b>3</b> |           |           |                    |           |           |           |
|                                                       |          | (SPECIFY) | (SPECIFY) | (SPECIFY)          | (SPECIFY) | (SPECIFY) | (SPECIFY) |

## SHAFT, BUSHING, AND FLAT OPTIONS

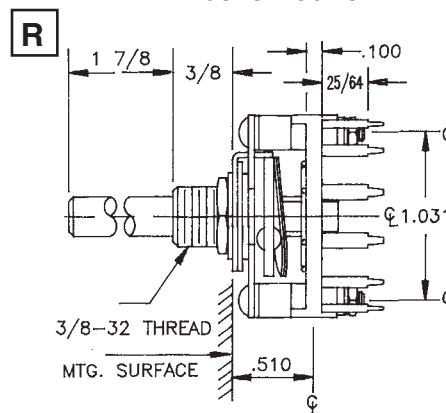


## INSULATION AND PRINTED CIRCUIT BOARD TERMINAL OPTIONS

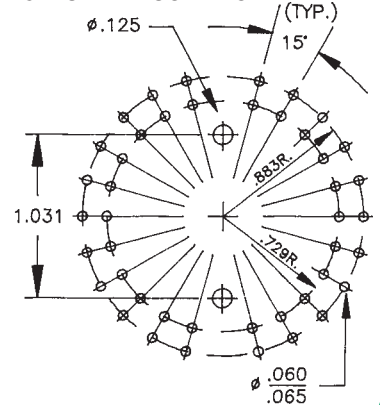
D3C - CERAMIC CONSTRUCTION



D3D - DIALLYL PHTHALATE CONSTRUCTION



P.C. BOARD MOUNTING PATTERN



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.