

# D4 - SERIES

## SPECIFICATIONS AND ORDERING INFORMATION

1.437" DIAMETER 1.5 AMPS @ 28 VDC

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 and is available with up to 12 positions and 30° or 60° indexing.



### 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:** 1,500 VAC between current carrying parts and ground.

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

**Insulation Resistance:** Glass epoxy 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 as standard.

**Clips and Rotors:** Brass with silver plate as standard.

**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:** 10 in. lbs. minimum.

### STANDARD PART NUMBER

#### GLASS EPOXY INSULATION

SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS

| POLES | ACTIVE POSITIONS | POLES/SECTION | NO. OF SECTIONS | SHORTING | NON-SHORTING | FIG. * |
|-------|------------------|---------------|-----------------|----------|--------------|--------|
| 01    | 02-11            | 1             | 1               | D4G0111S | D4G0111N     | DA     |
| 02    | 02-11            | 1             | 2               | D4G0211S | D4G0211N     | DA     |
| 02    | 02-05            | 2             | 1               | D4G0205S | D4G0205N     | DG     |
| 03    | 02-11            | 1             | 3               | D4G0311S | D4G0311N     | DA     |
| 03    | 02-03            | 3             | 1               | D4G0303S | D4G0303N     | DM     |
| 04    | 02-11            | 1             | 4               | D4G0411S | D4G0411N     | DA     |
| 04    | 02-05            | 2             | 2               | D4G0405S | D4G0405N     | DG     |
| 05    | 02-11            | 1             | 5               | D4G0511S | D4G0511N     | DA     |
| 06    | 02-11            | 1             | 6               | D4G0611S | D4G0611N     | DA     |
| 06    | 02-05            | 2             | 3               | D4G0605S | D4G0605N     | DG     |
| 06    | 02-03            | 3             | 2               | D4G0603S | D4G0603N     | DM     |
| 09    | 02-03            | 3             | 3               | D4G0903S | D4G0903N     | DM     |

#### CERAMIC INSULATION

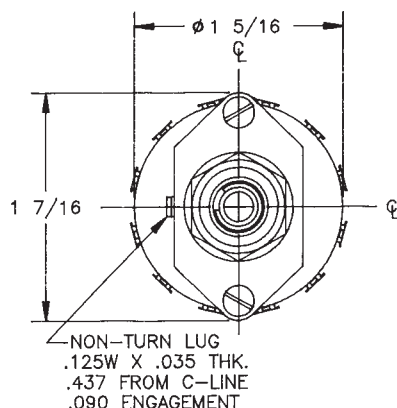
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS

| POLES | ACTIVE POSITIONS | POLES/SECTION | NO. OF SECTIONS | SHORTING | NON-SHORTING | FIG. * |
|-------|------------------|---------------|-----------------|----------|--------------|--------|
| 01    | 02-12            | 1             | 1               | D4C0112S | D4C0112N     | DD     |
| 02    | 02-12            | 1             | 2               | D4C0212S | D4C0212N     | DD     |
| 02    | 02-06            | 2             | 1               | D4C0206S | D4C0206N     | DL     |
| 03    | 02-12            | 1             | 3               | D4C0312S | D4C0312N     | DD     |
| 03    | 02-05            | 3             | 1               | D4C0305S | D4C0305N     | DO     |
| 04    | 02-12            | 1             | 4               | D4C0412S | D4C0412N     | DD     |
| 04    | 02-06            | 2             | 2               | D4C0406S | D4C0406N     | DL     |
| 05    | 02-12            | 1             | 5               | D4C0512S | D4C0512N     | DD     |
| 05    | 02-03            | 5             | 1               | D4C0503S | D4C0503N     | DR     |
| 06    | 02-12            | 1             | 6               | D4C0612S | D4C0612N     | DD     |
| 06    | 02-06            | 2             | 3               | D4C0606S | D4C0606N     | DL     |
| 06    | 02-05            | 3             | 2               | D4C0605S | D4C0605N     | DO     |

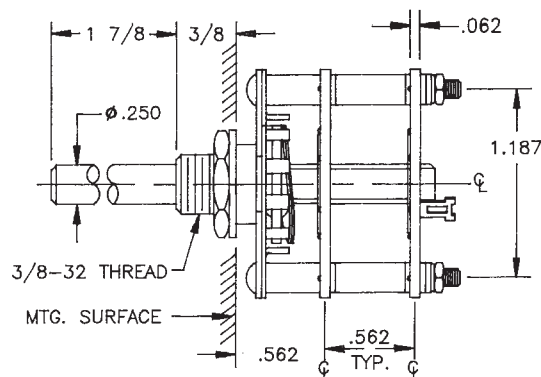
\* FIGURES ARE SHOWN ON PAGES 55 AND 56.

### DIMENSIONS

#### STANDARD CONSTRUCTION



#### D4G - STANDARD GLASS EPOXY CONSTRUCTION



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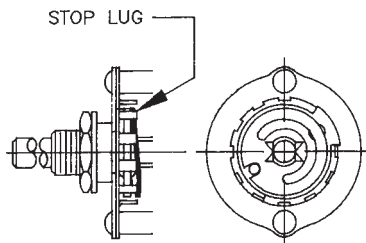
## How to Order Additional Options:

| 2 DIGIT SERIES | INSULATION TYPE                        | TOTAL POLES | ACTIVE POSITIONS                 | CONTACT TYPE                     | TERMINAL TYPE                   | INDEX ANGLE | STOP TYPE                          | SHAFT/ BUSHING | SHAFT FLAT    |
|----------------|----------------------------------------|-------------|----------------------------------|----------------------------------|---------------------------------|-------------|------------------------------------|----------------|---------------|
| D4             | G - GLASS<br>C - CERAMIC<br>D - DIALYL | 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" |

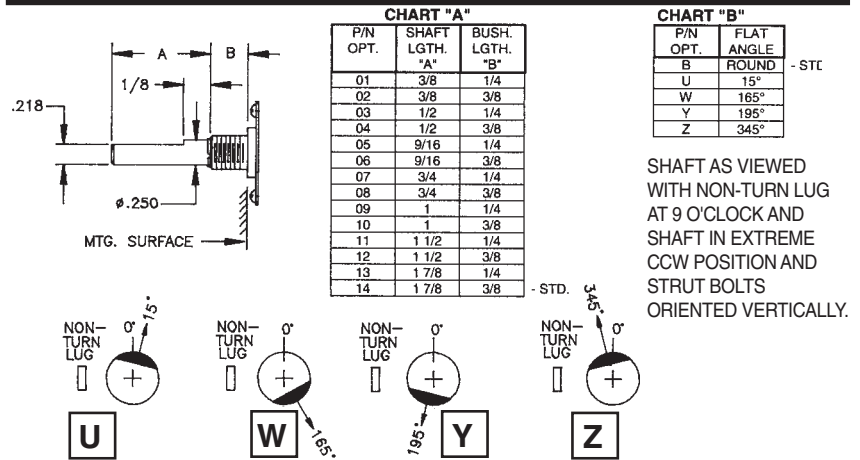
| CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS |          |                      |                      |                      | ADDITIONAL OPTIONS   |                      |                      |                      |                      |
|-------------------------------------------------------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>D</b>                                              | <b>4</b> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
|                                                       |          | (SPECIFY)            | (SPECIFY)            | (SPECIFY)            | (SPECIFY)            | (SPECIFY)            | (SPECIFY)            | (SPECIFY)            | (SPECIFY)            |

### ADJUSTABLE STOP MECHANISM



REMOVE STOP LUGS TO ACHIEVE MORE POSITIONS.

### SHAFT, BUSHING, AND FLAT OPTIONS

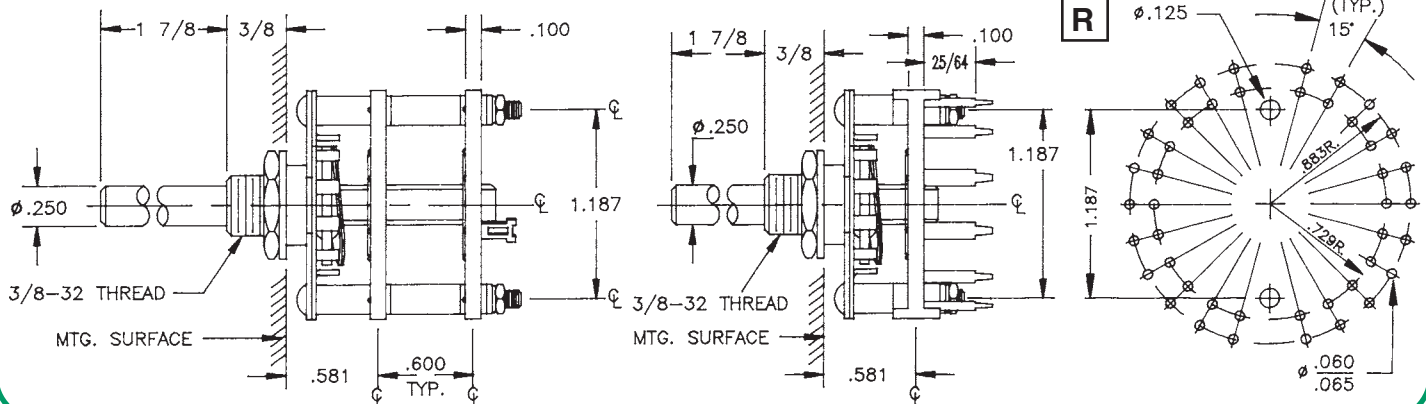


### INSULATION AND PRINTED CIRCUIT BOARD TERMINAL OPTIONS

#### D4C - CERAMIC CONSTRUCTION

#### D4D - DIALYL PHTHALATE CONSTRUCTION

#### DIALYL PHTHALATE P.C. BOARD MOUNTING PATTERN



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

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