

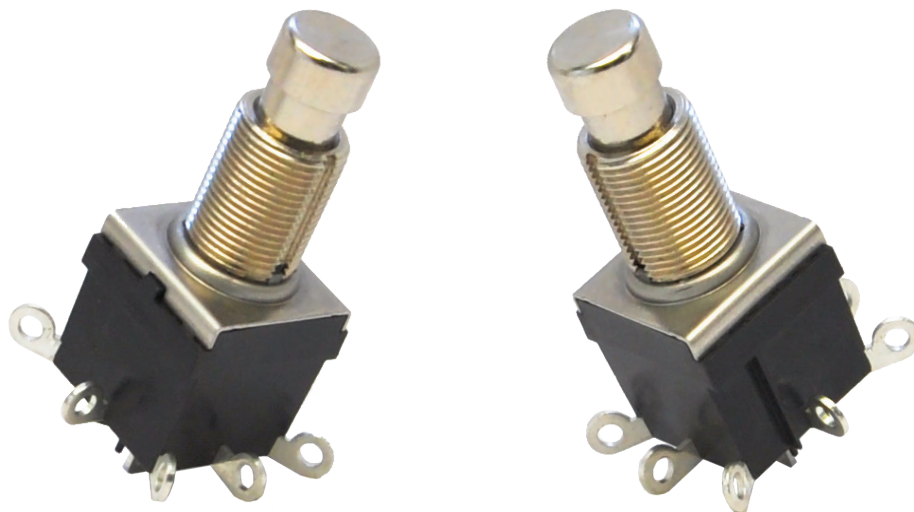
# 641-Series

## Pushbutton Switches

The single, double and triple pole 641-Series represents the most compact offerings of the Carling's pushbutton switch line. These switches are UL 61058 approved and meet ENEC spacing requirements. Additionally, the new 3-pole switch affords the versatility to control an extra function or indicator light. Rugged metal construction, self-cleaning contacts and stiff actuation force (3-3 1/2 lbs. typical) have made these switches ideal for most "foot pedal" type applications. These alternate action switches fit a standard .500" mounting hole with options of solder lug, wire lead and PC terminals.

### Typical Applications:

- Music Equipment
- Test & Measurement Devices
- Audio-Visual Equipment
- Appliances



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## Electrical

|                            |                               |
|----------------------------|-------------------------------|
| Rating                     | 5A 125VAC, 2A 250VAC          |
| Dielectric Strength        | 1500V RMS                     |
| Insulation Resistance      | 50 Megohms                    |
| Initial Contact Resistance | 10 Milli Ohm max @ 4Vdc       |
| Electrical Life            | 50,000 Cycles                 |
| Terminals                  | Solder Lug, Wire Leads and PC |

## Mechanical

|                 |                |
|-----------------|----------------|
| Mechanical Life | 100,000 Cycles |
|-----------------|----------------|

## Environmental

|                       |                                                                      |
|-----------------------|----------------------------------------------------------------------|
| Vibration Sinusoidal  | Mil STD 202G, Method 204D, Test Condition A 0.06DA or 10G's 10-500Hz |
| Shock                 | MIL-STD 2020G, Method 213B Test Condition K, 30G's                   |
| Handling Shock        | 1 Meter Drop onto Hard Surface, all surfaces and planes              |
| Thermal Shock         | MIL-STD 2020G, Method 107G Test Condition A -55 C to 85 C            |
| Moisture Resistance   | MIL-STD 2020G, Method 106F 10 25 C to 65 C Cycles 95% RH             |
| Thermal Cycling       | 25 Cycles -40 C to 85 C                                              |
| Operating Temperature | 32°F to 185°F (0°C to +85°C)                                         |

## Physical

|                     |                                                                |
|---------------------|----------------------------------------------------------------|
| Function Circuits   | Three Pole Single Throw, TPST<br>Three Pole Double Throw, TPDT |
| Operation           | Alternate Action, Push ON, Push OFF                            |
| Button Travel       | 0.19 (4.83mm)                                                  |
| Actuation Force     | 3 to 5 LB, 1360 to 2268 g                                      |
| Base                | Polyester, PBT Glass Filled                                    |
| Button              | Brass, Nickel Plated                                           |
| Bushing             | Brass, Nickel Plated                                           |
| Plunger             | Brass, Nickel Plated                                           |
| Top Plate           | Stainless Steel                                                |
| Actuator (Internal) | Nylon 6/6                                                      |
| Pin (Internal)      | Nylon 6/6                                                      |
| Driver              | Cold Rolled Steel                                              |
| Springs             | Music Wire                                                     |
| Movable Contact     | Copper                                                         |
| Terminals           | Brass (tin plated)                                             |
| Mounting            | ½" Dia. Hole, with and w/o keyway, or with locking ring        |

## Safety & Regulation

|           |                    |
|-----------|--------------------|
| Agency    | UL 61058, EN 61058 |
| Materials | RoHS, REACH        |

\*Manufacturer reserves the right to change product specification without prior notice.

# 64111210

<sup>1</sup>  
Part Number

## 1 PART NUMBER: SERIES / POLES / CIRCUITRY / RATING / TERMINATION

### One Pole

2A 250VAC, 5A 125VAC

| solder lug | PC term. | wire leads. |        |
|------------|----------|-------------|--------|
| 64111210   | 64111212 | 64111215    | ON-OFF |
| 64111220   | 64111222 | 64111225    | ON-ON  |

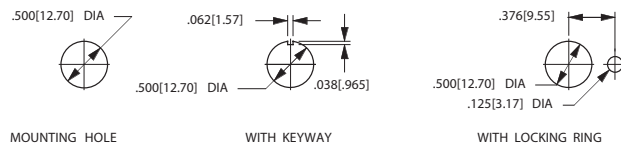
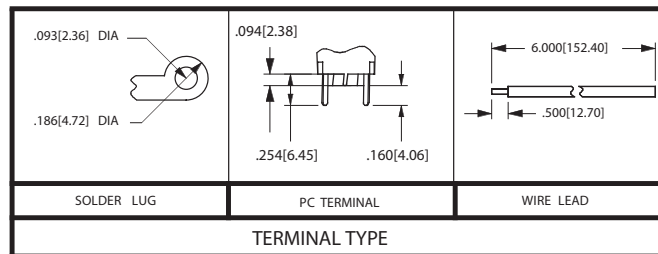
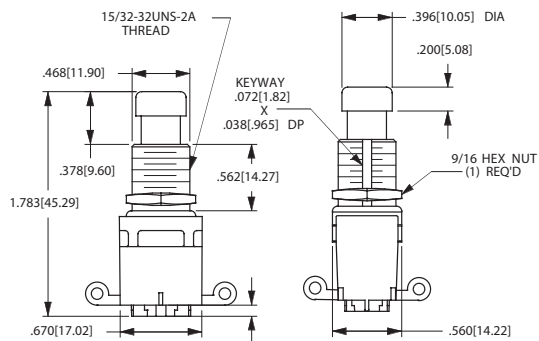
### Two Pole

| solder lug | PC term. | wire leads |
|------------|----------|------------|
| 64112210   | 64112212 | 64112215   |
| 64112220   | 64112222 | 64112225   |

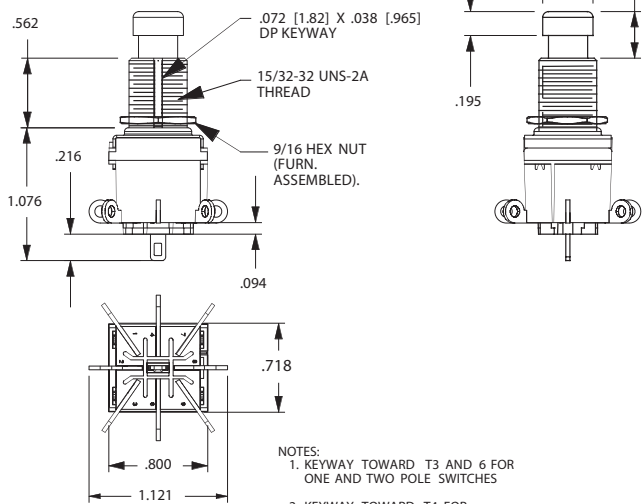
### Three Pole

| solder lug | PC term. | wire leads |
|------------|----------|------------|
| 64113210   | 64113212 | 64113215   |
| 64113220   | 64113222 | 64113225   |

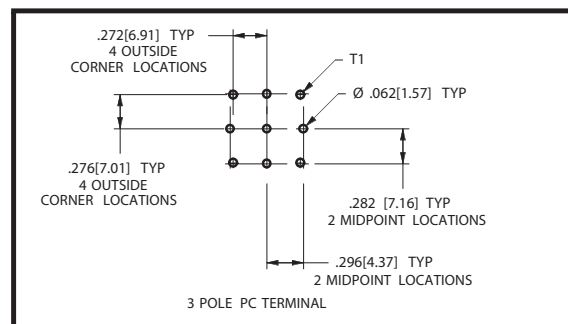
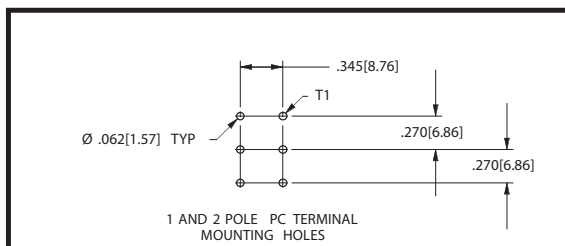
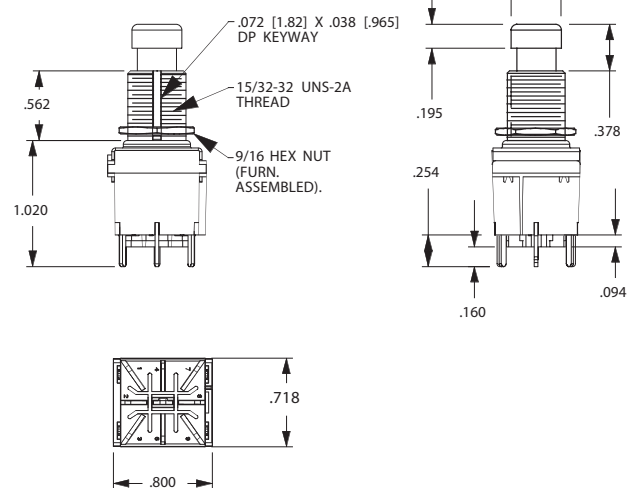
### 1 OR 2 POLE SHOWN WITH SOLDER LUG



### 3 POLE SHOWN WITH SOLDER LUG



### 3 POLE SHOWN WITH PC TERMINAL



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