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Jameco Part Number 548236

## Pushbutton Switches, Panel Mount, Wire Lug or PC Tails, 6 Amp

### MATERIAL SPECIFICATIONS:

Contacts .....Silver clad copper with gold flash  
Case Material.....Thermoset  
Actuator Material .....Nickel plated copper alloy  
Terminals.....Copper with gold flash  
Terminal Seal .....Molded in

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-4°F to +176°F (-20°C to +80°C)  
Storage Temperature .....-40°F to +176°F (-40°C to +80°C)  
Solder Heat Resistance .....See page M3-4

Note: Hardware included with switches

### TYPICAL PERFORMANCE CHARACTERISTICS:

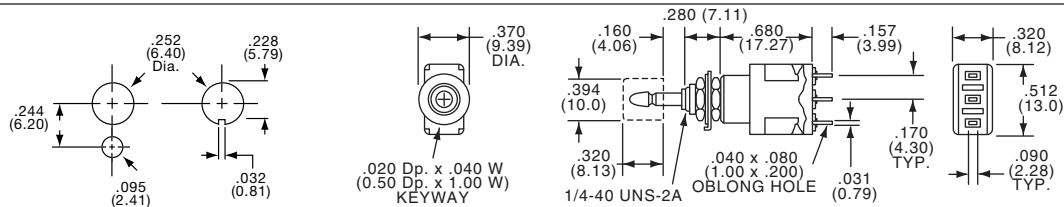
Contact Rating.....6 A @ 125 VAC, 3 A @ 250 VAC  
Initial Contact Resistance .....10 Milliohms max.  
Contact Timing .....Break-before-make  
Insulation Resistance.....1,000 Megohms min.  
Dielectric Strength.....1,500 Volts RMS @ sea level  
Actuation Force .....1.3 to 2.7 lbs.  
Actuator Travel ......140" (3.56)  
Life Expectancy.....Up to 50,000 Actuations

**Cap not supplied, order separately**  
(See Cap Model C22 and C23 on page D32.)

### SPDT



MPA106D

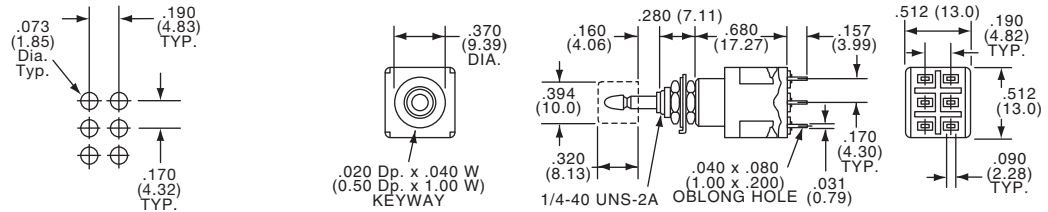


| Part Number      |            |      |                 |                  |
|------------------|------------|------|-----------------|------------------|
| Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | Action           |
| 2-1437567-8      | MPA106D    | SPDT | 23              | Push-on/Push-off |
| 2-1437567-9      | MPA106F    | SPDT | 19              | Momentary        |

### DPDT



MPA206N



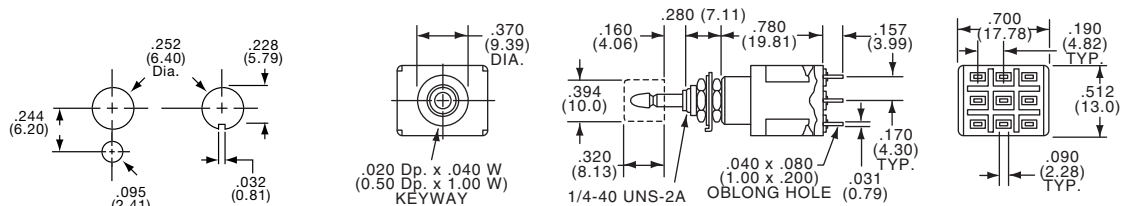
| Part Number       |            |      |                 |                  |
|-------------------|------------|------|-----------------|------------------|
| Tyco Electronics  | Alcoswitch | Type | Act. Code P. M6 | Action           |
| Wirelug Terminals |            |      |                 |                  |
| 3-1437567-1       | MPA206N    | DPDT | 24              | Push-on/Push-off |
| 3-1437567-3       | MPA206R    | DPDT | 20              | Momentary        |

| Part Number      |            |      |                 |                  |
|------------------|------------|------|-----------------|------------------|
| Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | Action           |
| PC Terminals     |            |      |                 |                  |
| 3-1437567-2      | MPA206NPC  | DPDT | 24              | Push-on/Push-off |
| 3-1437567-4      | MPA206RPC  | DPDT | 20              | Momentary        |

### 3PDT



MPA306D

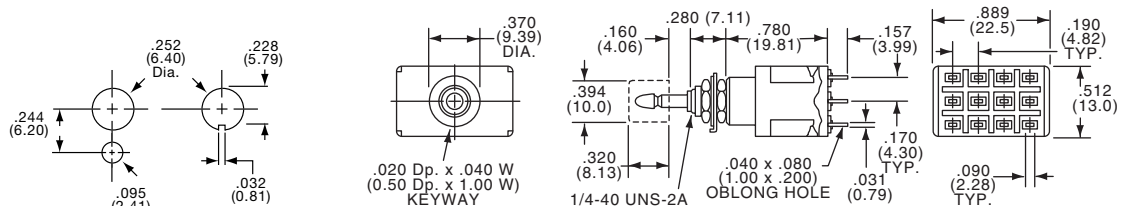


| Part Number      |            |      |                 |                  |
|------------------|------------|------|-----------------|------------------|
| Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | Action           |
| 3-1437567-5      | MPA306D    | 3PDT | 25              | Push-on/Push-off |
| 3-1437567-6      | MPA306F    | 3PDT | 21              | Momentary        |

### 4PDT



MPA406N



| Part Number      |            |      |                 |                  |
|------------------|------------|------|-----------------|------------------|
| Tyco Electronics | Alcoswitch | Type | Act. Code P. M6 | Action           |
| 3-1437567-7      | MPA406N    | 4PDT | 26              | Push-on/Push-off |
| 3-1437567-8      | MPA406R    | 4PDT | 22              | Momentary        |

## Pushbutton Switches, Splashproof, Panel Mount, Wire Lug, 6 Amp

### MATERIAL SPECIFICATIONS:

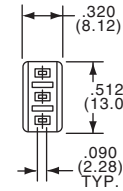
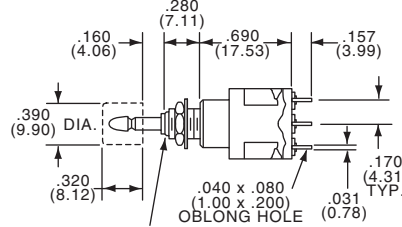
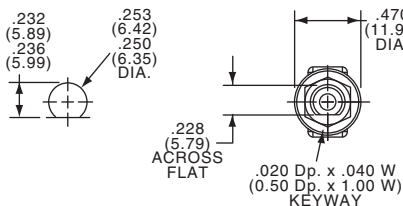
Contacts .....Silver clad copper with gold flash  
Case Material .....Thermoset  
Actuator Material .....Nickel plated copper alloy  
Terminals .....Copper with gold flash  
Terminal Seal .....Molded in

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature .....-4°F to +176°F (-20°C to +80°C)  
Storage Temperature .....-40°F to +176°F (-40°C to +80°C)  
Note: Hardware included with switches

### TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....6 A @ 125 VAC, 3 A @ 250 VAC  
Initial Contact Resistance .....10 Milliohms max.  
Contact Timing .....Break-before-make  
Insulation Resistance .....1,000 Megohms min.  
Dielectric Strength .....1,500 Volts RMS @ sea level  
Actuation Force .....1.3 to 2.7 lbs.  
Actuator Travel ......140" (3.56)  
Life Expectancy .....Up to 50,000 Actuations  
**Notice: O-ring on shoulder and inside moveable shaft provides splashproof seal. Meets IP65**



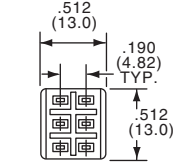
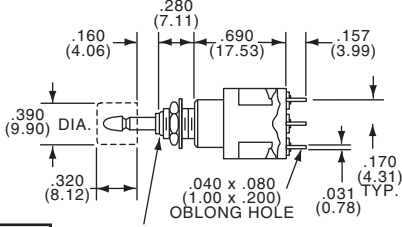
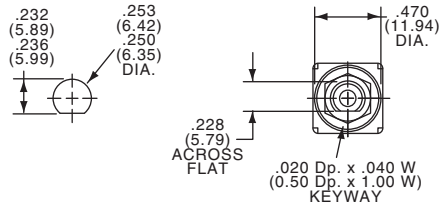
SPDT



MPE106D

| Part Number      |            | Act. Code |       | Action           |
|------------------|------------|-----------|-------|------------------|
| Tyco Electronics | Alcoswitch | Type      | P. M6 |                  |
| 4-1437567-2      | MPE106D    | SPDT      | 23    | Push on/Push off |
| 4-1437567-3      | MPE106F    | SPDT      | 19    | Momentary        |

Cap not supplied, order separately (See Cap Model C22 and C23 on page D32.)



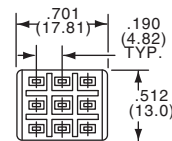
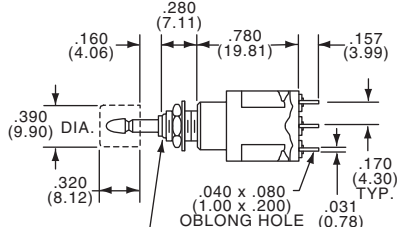
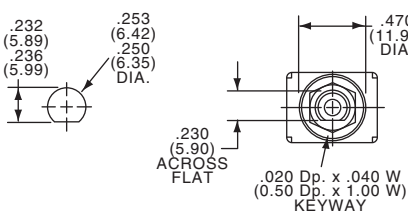
DPDT



MPE206N

| Part Number      |            | Act. Code |       | Action           |
|------------------|------------|-----------|-------|------------------|
| Tyco Electronics | Alcoswitch | Type      | P. M6 |                  |
| 4-1437567-4      | MPE206N    | DPDT      | 24    | Push on/Push off |
| 4-1437567-5      | MPE206R    | DPDT      | 20    | Momentary        |

Cap not supplied, order separately (See Cap Model C22 and C23 on page D32.)



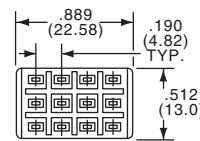
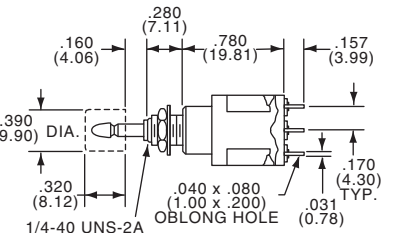
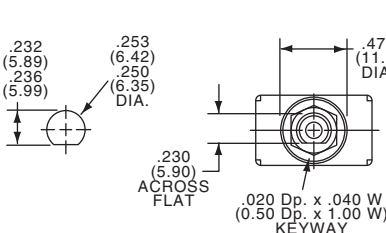
3PDT



MPE306F

| Part Number      |            | Act. Code |       | Action           |
|------------------|------------|-----------|-------|------------------|
| Tyco Electronics | Alcoswitch | Type      | P. M6 |                  |
| —                | MPE306D    | 3PDT      | 25    | Push on/Push off |
| 4-1437567-6      | MPE306F    | 3PDT      | 21    | Momentary        |

Cap not supplied, order separately (See Cap Model C22 and C23 on page D32.)



4PDT



MPE406N

| Part Number      |            | Act. Code |       | Action           |
|------------------|------------|-----------|-------|------------------|
| Tyco Electronics | Alcoswitch | Type      | P. M6 |                  |
| 4-1437567-7      | MPE406N    | 4PDT      | 26    | Push on/Push off |
| 4-1437567-8      | MPE406R    | 4PDT      | 22    | Momentary        |

Cap not supplied, order separately (See Cap Model C22 and C23 on page D32.)

**Pushbutton Switches, 15/32 Bushing, Mustang, Wire Lug or PC Tails, 6 Amp**

**MATERIAL SPECIFICATIONS:**

Contacts .....Silver clad copper with gold flash  
Case Material .....Thermoset  
Terminals .....Copper with gold flash finish  
Terminal Seal .....Molded in

**ENVIRONMENTAL SPECIFICATIONS:**

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)  
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)  
Solder Heat Resistance .....See page M3-4

**TYPICAL PERFORMANCE CHARACTERISTICS:**

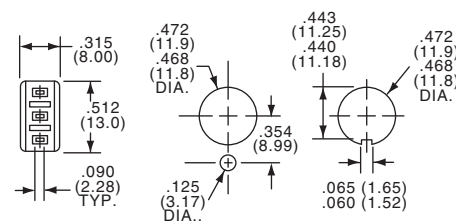
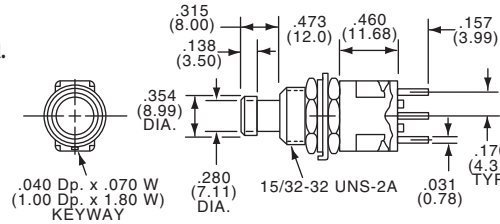
Contact Rating .....6 A @ 125 VAC, 3 A @ 250 VAC  
Initial Contact Resistance .....10 Milliohms max.  
Contact Timing .....Break-before-make  
Insulation Resistance .....1,000 Megohms min.  
Dielectric Strength .....1,500 Volts RMS @ sea level  
Actuation Force .....1.3 to 2.7 lbs.  
Actuator Travel.....138" (3.51)  
Life Expectancy .....Up to 50,000 Actuations  
Note: Hardware included with switches

**SPDT**

Black Cap supplied.



MPG106D



Other Caps Available, order separately  
(See Cap Model C9 on page D32.)

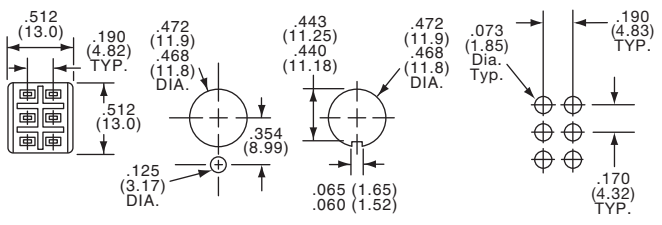
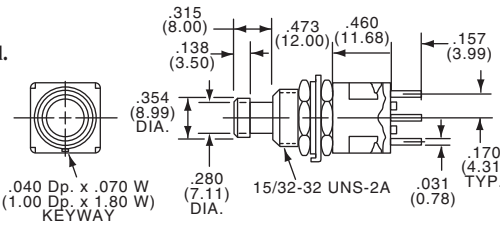
| Part Number      |            | Type | Act. Code P. M6 | Action           | Terminals |
|------------------|------------|------|-----------------|------------------|-----------|
| Tyco Electronics | Alcoswitch |      |                 |                  |           |
| 4-1437567-9      | MPG106D    | SPDT | 23              | Push on/Push off | Wire Lug  |
| 5-1437567-0      | MPG106F    | SPDT | 19              | Momentary        | Wire Lug  |

**DPDT**

Black Cap supplied.



MPG206NPC



Other Caps Available, order separately  
(See Cap Model C9 on page D32.)

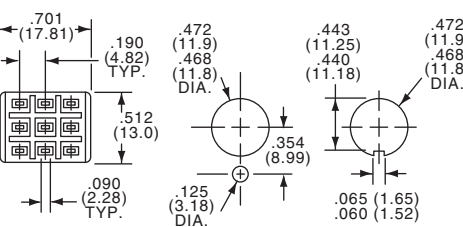
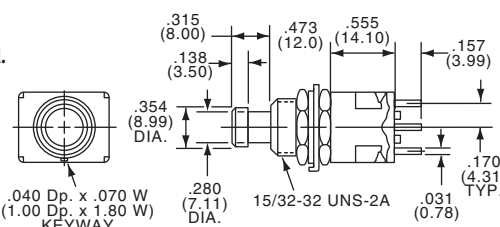
| Part Number      |            | Type | Act. Code P. M6 | Action           | Terminals |
|------------------|------------|------|-----------------|------------------|-----------|
| Tyco Electronics | Alcoswitch |      |                 |                  |           |
| 5-1437567-1      | MPG206N    | DPDT | 24              | Push on/Push off | Wire Lug  |
| 5-1437567-3      | MPG206R    | DPDT | 20              | Momentary        | Wire Lug  |
| 5-1437567-2      | MPG206NPC  | DPDT | 24              | Push on/Push off | PC        |
| 5-1437567-4      | MPG206RPC  | DPDT | 20              | Momentary        | PC        |

**3PDT**

Black Cap supplied.



MPG306D



Other Caps Available, order separately  
(See Cap Model C9 on page D32.)

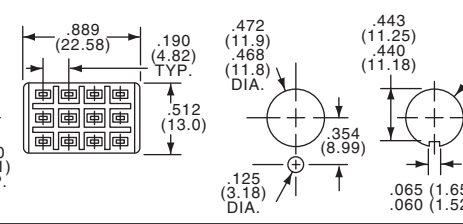
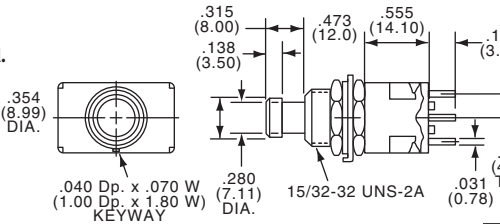
| Part Number      |            | Type | Act. Code P. M6 | Action           | Terminals |
|------------------|------------|------|-----------------|------------------|-----------|
| Tyco Electronics | Alcoswitch |      |                 |                  |           |
| 5-1437567-5      | MPG306D    | 3PDT | 25              | Push on/Push off | Wire Lug  |
| 5-1437567-6      | MPG306F    | 3PDT | 21              | Momentary        | Wire Lug  |

**4PDT**

Black Cap supplied.



MPG406N



Other Caps Available, order separately  
(See Cap Model C9 on page D32.)

| Part Number      |            | Type | Act. Code P. M6 | Action           | Terminals |
|------------------|------------|------|-----------------|------------------|-----------|
| Tyco Electronics | Alcoswitch |      |                 |                  |           |
| 5-1437567-7      | MPG406N    | 4PDT | 25              | Push on/Push off | Wire Lug  |
| 5-1437567-8      | MPG406R    | 4PDT | 21              | Momentary        | Wire Lug  |

## Pushbutton Switches, Snap Action, Wire Lug, 3 Amp

### MATERIAL SPECIFICATIONS:

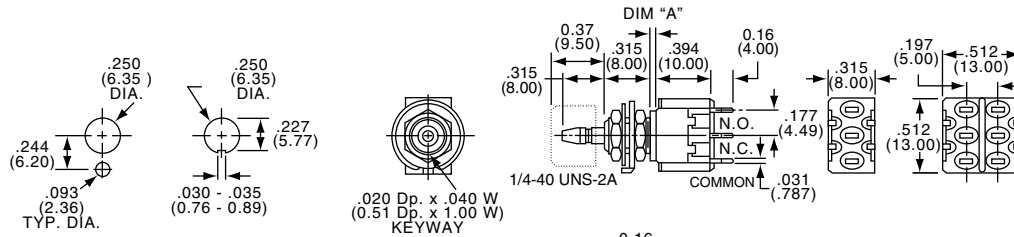
Contacts .....Silver  
Case Material .....Epoxy resin  
Actuator Material .....Copper alloy, nickel plate  
Terminals .....Silver  
Terminal Seal .....Epoxy

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+5°F to +158°F (-15°C to +70°C)  
Storage Temperature.....+5°F to +158°F (-15°C to +70°C)  
Solder Heat Resistance .....See page M3-4

### TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....3 A @ 115 VAC or 28 VDC  
Initial Contact Resistance .....10 Milliohms max.  
Contact Timing .....Break-before-make  
Insulation Resistance .....1,000 Megohms @ 500 VDC min.  
Dielectric Strength .....1,000 Volts RMS @ sea level  
Actuation Force .....Single pole - 7 to 14 oz. (200 to 400 grams)  
.....Double pole - 14 to 25 oz. (400 to 700 grams)  
Actuator Travel.....Momentary .040" (1.02)  
.....Push on/off .098" (2.49)  
Life Expectancy .....Up to 50,000 Actuations

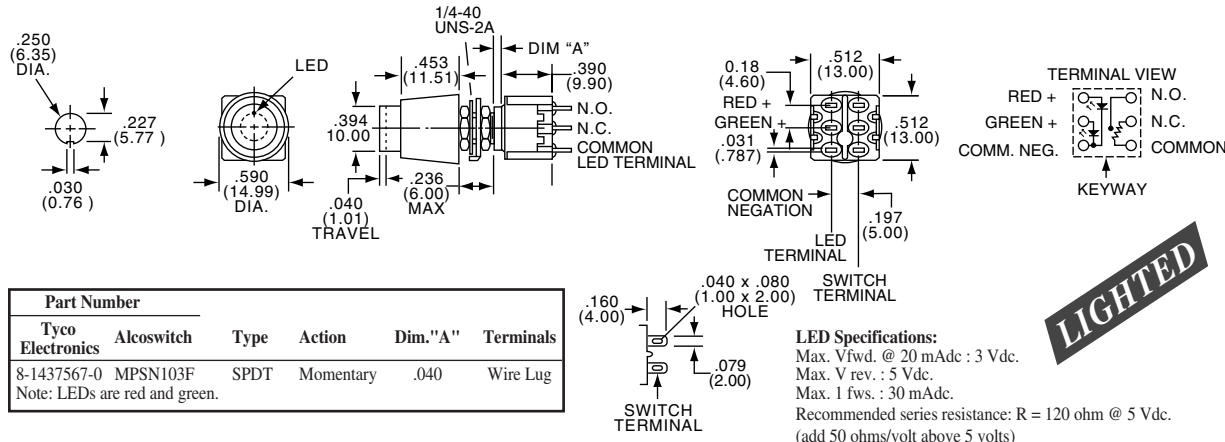


SPDT/DPDT



| Part Number             | Type    | Action           | Dim."A" | Terminals |
|-------------------------|---------|------------------|---------|-----------|
| <b>Tyco Electronics</b> |         |                  |         |           |
| 5-1437567-9             | MPS103D | SPDT Push-on/Off | .100    | Wire Lug  |
| 6-1437567-3             | MPS103F | SPDT Momentary   | .040    | Wire Lug  |
| 6-1437567-8             | MPS203N | DPDT Push-on/Off | .100    | Wire Lug  |
| 7-1437567-2             | MPS203R | DPDT Momentary   | .040    | Wire Lug  |

**Note: Hardware included with switches**  
Caps not supplied, order separately. (See Cap Model C22 and C23 on Page D32.)



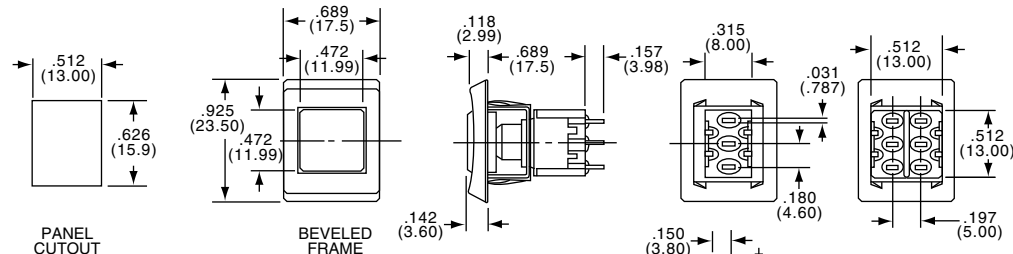
SPDT



| Part Number             | Type     | Action         | Dim."A" | Terminals |
|-------------------------|----------|----------------|---------|-----------|
| <b>Tyco Electronics</b> |          |                |         |           |
| 8-1437567-0             | MPSN103F | SPDT Momentary | .040    | Wire Lug  |

Note: LEDs are red and green.

**LED Specifications:**  
Max. Vfwd. @ 20 mA dc : 3 Vdc.  
Max. V rev. : 5 Vdc.  
Max. I fws : 30 mA dc.  
Recommended series resistance: R = 120 ohm @ 5 Vdc.  
(add 50 ohms/volt above 5 volts)



SPDT/DPDT



| Part Number             | Type               | Action                 | Terminals |
|-------------------------|--------------------|------------------------|-----------|
| <b>Tyco Electronics</b> |                    |                        |           |
| 8-1437567-1             | MPSR103F           | SPDT Momentary         | Wire Lug  |
| 8-1437567-2             | MPSR203R           | DPDT Momentary         | Wire Lug  |
| <b>Model</b>            | <b>Description</b> | <b>Color</b>           |           |
| 2-1437628-2             | SDR0               | Plastic beveled frame  | Black     |
| 5-1437627-5             | C330               | Square button for MPSR | Black     |
| 5-1437627-6             | C332               | Square button "        | Red       |
| 5-1437627-8             | C339               | Square button "        | White     |

**C-33(\*) Button not supplied, Plastic (black) beveled edged frame Model SDR0, not supplied.**  
**ORDER SEPARATELY**

## Pushbutton Switches, Snap Action, PC or Wire Wrap Tails, 3 Amp

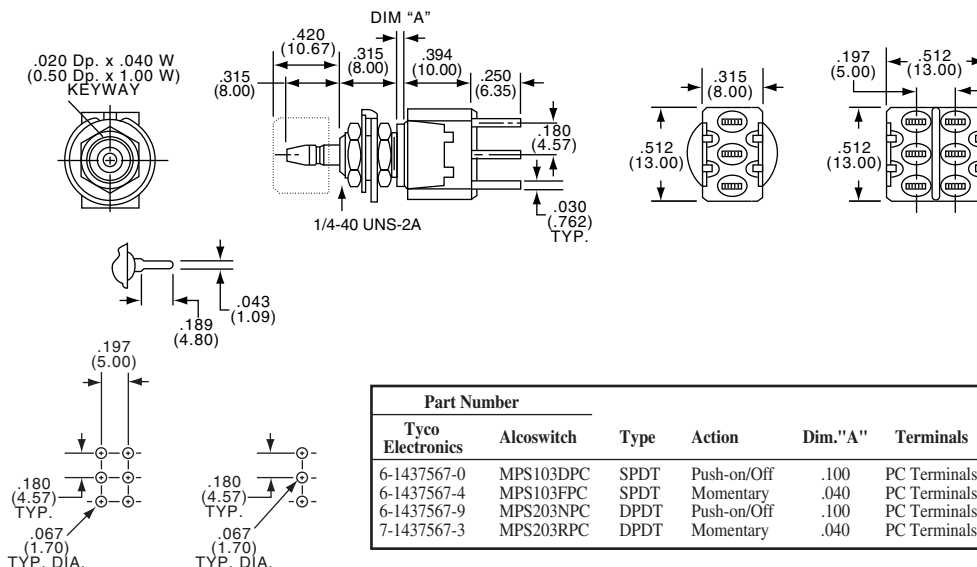
## SPDT/DPDT



MPS103FPC



MPS203RPC



**Caps not supplied, order separately. (See Cap Model C22 and C23 on Page D32.)**

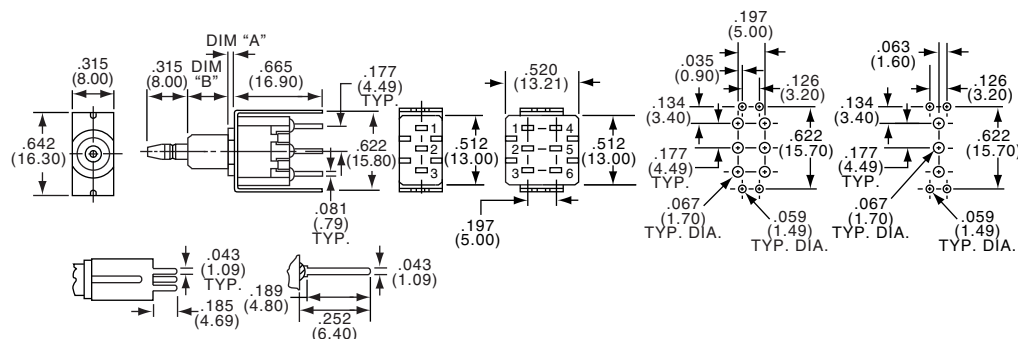
## SPDT/DPDT



MPS103FPCV



MPS203RPCV



| Part Number      |            | Type | Action      | Dim."A"    | Dim."B"    | Terminals    |
|------------------|------------|------|-------------|------------|------------|--------------|
| Tyco Electronics | Alcoswitch |      |             |            |            |              |
| 6-1437567-1      | MPS103DPCV | SPDT | Push-on/Off | .080(2.03) | .315(8.00) | PC w/support |
| 6-1437567-5      | MPS103FPCV | SPDT | Momentary   | .040(1.01) | .295(7.49) | PC w/support |
| 7-1437567-4      | MPS203RPCV | DPDT | Momentary   | .040(1.01) | .295(7.49) | PC w/support |

**Caps not supplied, order separately.**  
**(See Cap Model C22 and C23 on Page D32.)**

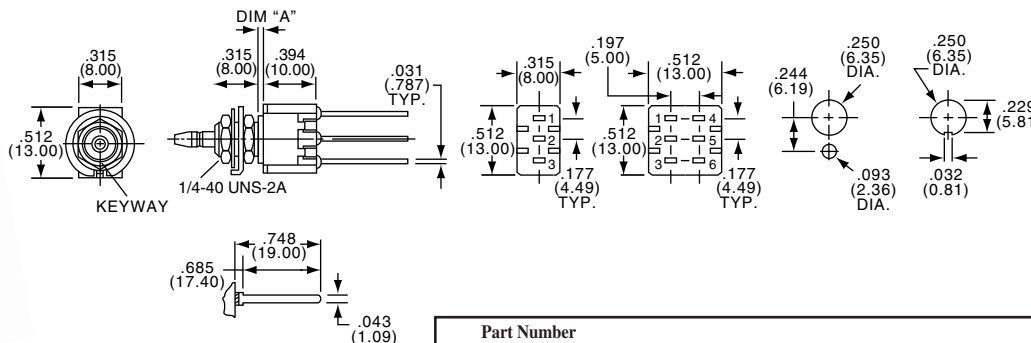
## SPDT/DPDT



MPS103FWW



MPS203R WW

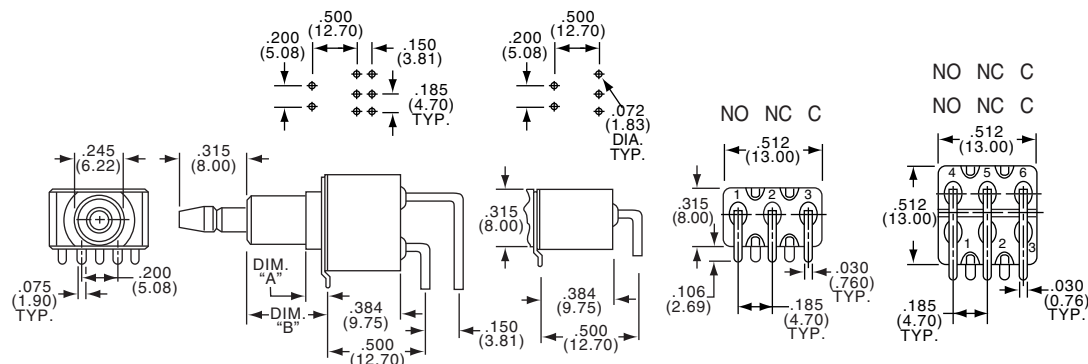


| Part Number      |            | Type | Action      | Dim."A"    | Terminals   |
|------------------|------------|------|-------------|------------|-------------|
| Tyco Electronics | Alcoswitch |      |             |            |             |
| 6-1437567-7      | MPS103FWW  | SPDT | Momentary   | .040(1.01) | Extended PC |
| —                | MPS203NWW  | DPDT | Push-on/Off | .100(2.54) | Extended PC |
| 7-1437567-6      | MPS203RWW  | DPDT | Momentary   | .040(1.01) | Extended PC |

**Caps not supplied, order separately.**  
**(See Cap Model C22 and C23 on Page D32.)**

## Pushbutton Switches, Snap Action, Right Angle, 3 Amp

SEE PAGE D25 FOR PRODUCT SPECIFICATIONS



SPDT/DPDT



MPS103DRA



MPS203NRA

| Part Number      |            | Type | Action      | Dim."A"    | Dim."B"    | Terminals      |
|------------------|------------|------|-------------|------------|------------|----------------|
| Tyco Electronics | Alcoswitch |      |             |            |            |                |
| 6-1437567-2      | MPS103DRA  | SPDT | Push-on/Off | .100(2.54) | .423(10.7) | Right Angle PC |
| 6-1437567-6      | MPS103FRA  | SPDT | Momentary   | .060(1.52) | .364(9.24) | Right Angle PC |
| 7-1437567-1      | MPS203NRA  | DPDT | Push-on/Off | .100(2.54) | .423(10.7) | Right Angle PC |
| 7-1437567-5      | MPS203RRA  | DPDT | Momentary   | .060(1.52) | .364(9.24) | Right Angle PC |

Caps not supplied, order separately.  
(See Cap Model C22 and C23 on Page D32.)

### MSP3/MSPS

## Pushbutton Switches, 2.5mm Travel, Panel Mount

### MATERIAL SPECIFICATIONS:

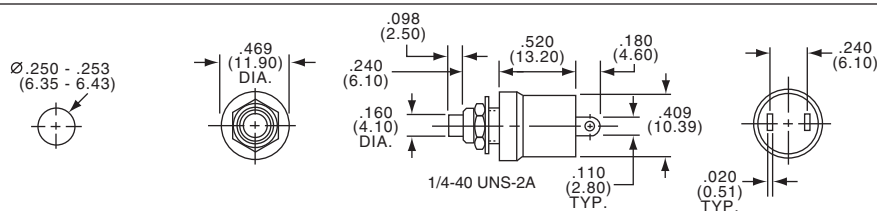
Contacts .....Silver plate over copper alloy  
Case Material .....Thermoplastic  
Actuator Material .....Thermoplastic  
Terminals .....Silver plate

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)  
Storage Temperature.....+5°F to +153°F (-15°C to +75°C)  
Solder Heat Resistance .....See page M3-4  
Note: Hardware included with switches

### TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating .....MSP103 - 3 Amps @ 125 VAC  
(with over travel) .059" (1.5mm)  
MSPS103 - 0.5 Amps @ 125 VAC  
(Butt contact)  
Initial Contact Resistance .....100 Milliohms  
Contact Timing .....Break-before-make  
Insulation Resistance .....1,000 Megohms min.  
Dielectric Strength .....1,000 Volts RMS @ sea level  
Life Expectancy .....Up to 10,000 Cycles  
Travel .....2.5 mm



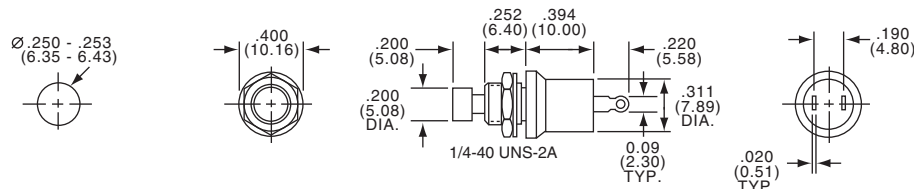
SPST



MSP103B

3 AMPS

| Part Number      |            | Type | Act. Code P. M6 | Momentary Action | Bushing Length | Actuator Color |
|------------------|------------|------|-----------------|------------------|----------------|----------------|
| Tyco Electronics | Alcoswitch |      |                 |                  |                |                |
| 8-1437567-3      | MSP103B    | SPST | 14              | Normally Closed  | .236           | Black          |
| 8-1437567-4      | MSP103C    | SPST | 13              | Normally Open    | .236           | Red            |
| 8-1437567-5      | MSP103C0   | SPST | 13              | Normally Open    | .236           | Black          |
| 8-1437567-6      | MSP103C2   | SPST | 13              | Normally Open    | .374           | Red            |



MSPS103B

0.5 AMPS

| Part Number      |            | Type | Act. Code P. M6 | Momentary Action | Bushing Length | Actuator Color |
|------------------|------------|------|-----------------|------------------|----------------|----------------|
| Tyco Electronics | Alcoswitch |      |                 |                  |                |                |
| 1437568-5        | MSPS103B   | SPST | 14              | Normally Closed  | .245           | Black          |
| 1437568-6        | MSPS103C2  | SPST | 13              | Normally Open    | .245           | Red            |
| 1437568-7        | MSPS103C0  | SPST | 13              | Normally Open    | .245           | Black          |

**Pushbutton Switches, Front or Rear Entry Mount, 15/32 Bushing**

**MATERIAL SPECIFICATIONS:**

Contacts .....Silver plate  
Case Material .....Thermoset  
Actuator Material .....Thermoplastic  
Terminals .....Silver plate  
Terminal Seal .....Epoxy

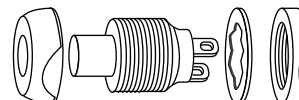
**ENVIRONMENTAL SPECIFICATIONS:**

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)  
Storage Temperature.....-4°F to +176°F (-20°C to +80°C)

**TYPICAL PERFORMANCE CHARACTERISTICS:**

Contact Rating .....0.5 A @ 125 VAC  
Initial Contact Resistance .....100 Milliohms  
Contact Timing .....Break-before-make  
Insulation Resistance .....1,000 Megohms min.  
Dielectric Strength .....1,000 Volts RMS @ sea level  
Actuator Travel......098" (2.49)  
Life Expectancy .....Up to 10,000 Cycles

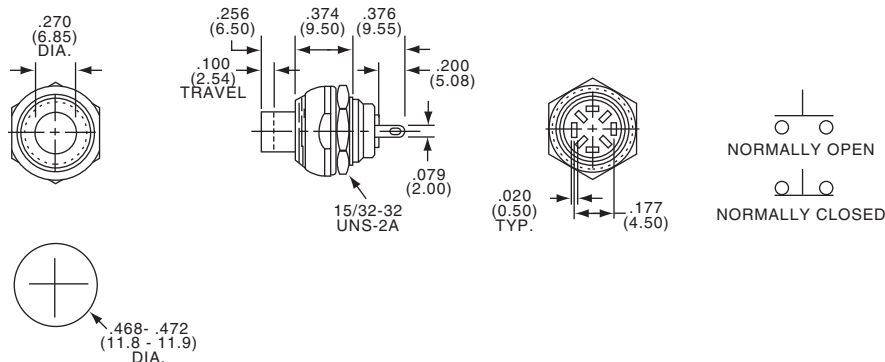
Application Note: Illustration shows versatile front or rear entry usage, with hardware supplied.



**SPST**



MSPF101B

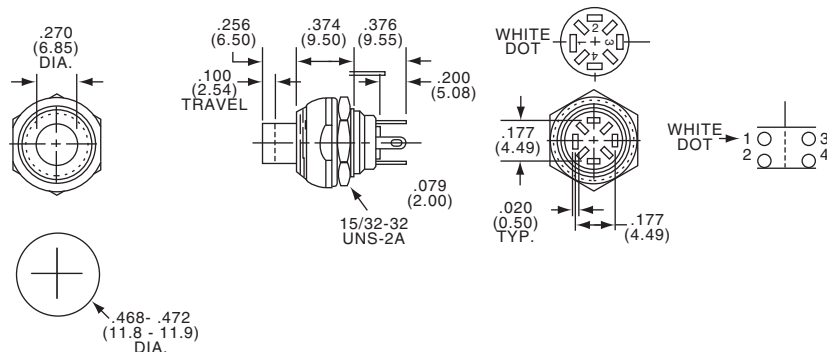


| Part Number      |            |      |                 |                |
|------------------|------------|------|-----------------|----------------|
| Tyco Electronics | Alcoswitch | Type | Action          | Actuator Color |
| 8-1437567-8      | MSPF101B   | SPST | Normally Closed | Black          |
| 9-1437567-3      | MSPF101C   | SPST | Normally Open   | Red            |

**2 CIRCUIT**



MSPF101BC



| Part Number      |            |           |                               |                |
|------------------|------------|-----------|-------------------------------|----------------|
| Tyco Electronics | Alcoswitch | Type      | Action                        | Actuator Color |
| 8-1437567-9      | MSPF101BC0 | 2 Circuit | Normally open-normally closed | Black          |
| 9-1437567-0      | MSPF101BC2 | 2 Circuit | Normally open-normally closed | Red            |
| 9-1437567-1      | MSPF101BC6 | 2 Circuit | Normally open-normally closed | Blue           |
| 9-1437567-2      | MSPF101BC9 | 2 Circuit | Normally open-normally closed | White          |