

## Toggle Switches, MT Series, Wire Lug, Long Bat Actuator

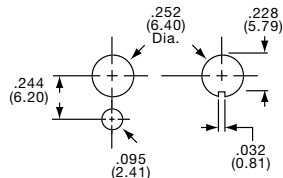
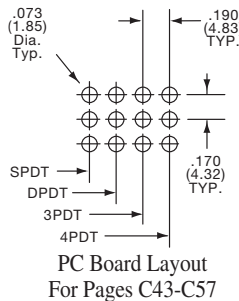
### MATERIAL SPECIFICATIONS:

Contacts ..... Gold flash over silver  
Actuator Material ..... Chrome plated copper alloy  
Case Material ..... Thermoset 94V-0  
Terminals ..... Gold flash  
Terminal Seal ..... Epoxy

### 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

UL Available when ordering . . . Consult factory.



### TYPICAL PERFORMANCE CHARACTERISTICS:

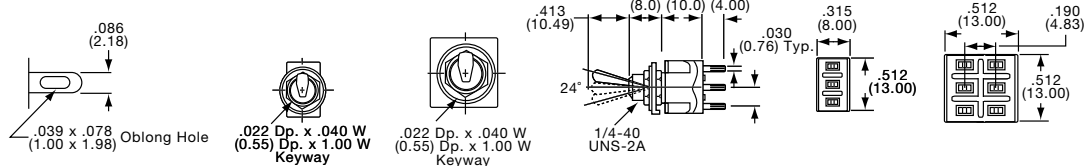
Contact Rating ..... 6 A @ 125 VAC, 3 A @ 250 VAC,  
4A @ 28 VDC  
Initial Contact Resistance ..... 20 Milliohms max.  
Contact Timing ..... Break before make  
Insulation Resistance ..... 1,000 Megohms min. @ 500 VDC  
min. for 1 minute  
Dielectric Strength ..... 1,500 VAC  
Actuation Force ..... .05-1.5 kg.  
Actuator Travel ..... .24° (26° on MTL Series)  
High Torque Bushing Shoulder ..... Standard  
Life Expectancy ..... See chart below.

**NOTICE: For terminal connections refer to Code Chart Page M5-6.**

Note: Hardware included with all switches

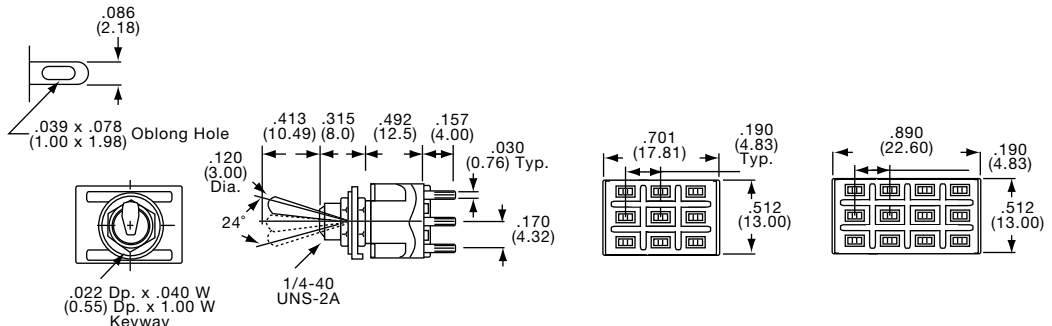
| Green Series toggle life expectancy chart |         |         |           |
|-------------------------------------------|---------|---------|-----------|
| Parameter                                 | 2 Pos.  | 3 Pos.  | Momentary |
| Mechanical (no load)                      | 150,000 | 100,000 | 60,000    |
| 250AC (3A Resistive)                      | 80,000  | 60,000  | 60,000    |
| 125AC (6A Resistive)                      | 80,000  | 60,000  | 60,000    |
| 28DC(4) (Resistive)                       | 60,000  | 50,000  | 40,000    |

### SPDT/DPDT/SP3T



| Tyco Electronics                   | Alcoswitch | Type | Act. | Code | P. M5 | On   | None | On | Tyco Electronics                                                         | Alcoswitch | Type | Act. | Code | P. M5 | On   | None | On |
|------------------------------------|------------|------|------|------|-------|------|------|----|--------------------------------------------------------------------------|------------|------|------|------|-------|------|------|----|
| 1-1437558-0                        | MTA106D    | SPDT | 1    | On   | None  | On   |      |    | 2-1437558-0                                                              | MTA206N    | DPDT | 2    | On   | None  | On   |      |    |
| 1-1437558-2                        | MTA106E    | SPDT | 5    | On   | Off   | On   |      |    | 2-1437558-2                                                              | MTA206P    | DPDT | 6    | On   | Off   | On   |      |    |
| 1-1437558-4                        | MTA106F    | SPDT | 1    | On   | None  | (On) |      |    | 2-1437558-7                                                              | MTA206R    | DPDT | 2    | On   | None  | (On) |      |    |
| 1-1437558-6                        | MTA106G    | SPDT | 5    | (On) | Off   | (On) |      |    | 2-1437558-9                                                              | MTA206S    | DPDT | 6    | (On) | Off   | (On) |      |    |
| 1-1437558-8                        | MTA106H    | SPDT | 5    | On   | Off   | (On) |      |    | 3-1437558-2                                                              | MTA206T    | DPDT | 6    | On   | Off   | On   |      |    |
| (On) indicates momentary position. |            |      |      |      |       |      |      |    | 2-1437558-3                                                              | *MTA206PA  | SP3T | 11   | On   | On    | On   |      |    |
|                                    |            |      |      |      |       |      |      |    | 3-1437558-0                                                              | *MTA206SA  | SP3T | 11   | (On) | (On)  | (On) |      |    |
|                                    |            |      |      |      |       |      |      |    | 3-1437558-3                                                              | *MTA206TA  | SP3T | 11   | On   | On    | (On) |      |    |
|                                    |            |      |      |      |       |      |      |    | (On) indicates momentary position.                                       |            |      |      |      |       |      |      |    |
|                                    |            |      |      |      |       |      |      |    | * Note: PA, SA & TA types have case .100/(2.50) longer than other types. |            |      |      |      |       |      |      |    |

### 3PDT/4PDT/DP3T



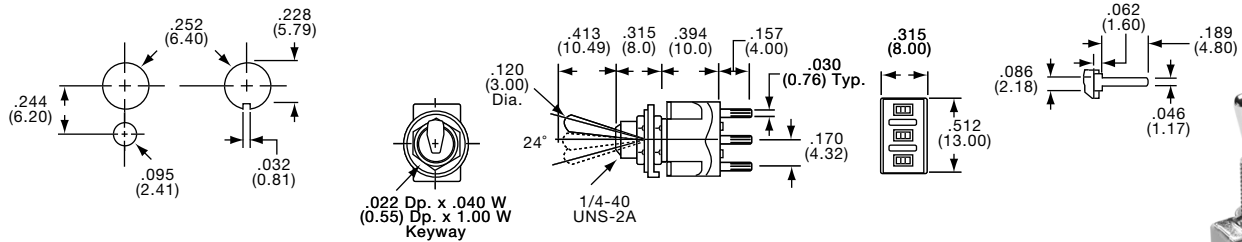
| Tyco Electronics                   | Alcoswitch | Type | Act. | Code | P. M5 | On   | None | On | Tyco Electronics                                                | Alcoswitch | Type | Act. | Code | P. M5 | On | None | On |
|------------------------------------|------------|------|------|------|-------|------|------|----|-----------------------------------------------------------------|------------|------|------|------|-------|----|------|----|
| 3-1437558-5                        | MTA306D    | 3PDT | 3    | On   | None  | On   |      |    | 4-1437558-3                                                     | MTA406N    | 4PDT | 4    | On   | None  | On |      |    |
| 3-1437558-7                        | MTA306E    | 3PDT | 7    | On   | Off   | On   |      |    | 4-1437558-5                                                     | MTA406P    | 4PDT | 8    | On   | Off   | On |      |    |
| 3-1437558-9                        | MTA306F    | 3PDT | 3    | On   | None  | (On) |      |    | 4-1437558-6                                                     | *MTA406PA  | DP3T | 12   | On   | On    | On |      |    |
| 4-1437558-1                        | MTA306H    | 3PDT | 7    | On   | Off   | (On) |      |    | * Note: PA types have case .100 (2.50) longer than other types. |            |      |      |      |       |    |      |    |
| (On) indicates momentary position. |            |      |      |      |       |      |      |    |                                                                 |            |      |      |      |       |    |      |    |

**Toggle Switches, MT Series, PC Tail, Long Bat Actuator**

SEE PAGE C43 FOR PRODUCT SPECIFICATIONS

For terminal connections refer to Code Chart. (See Page M5-6)

SPDT



MTA106DPC

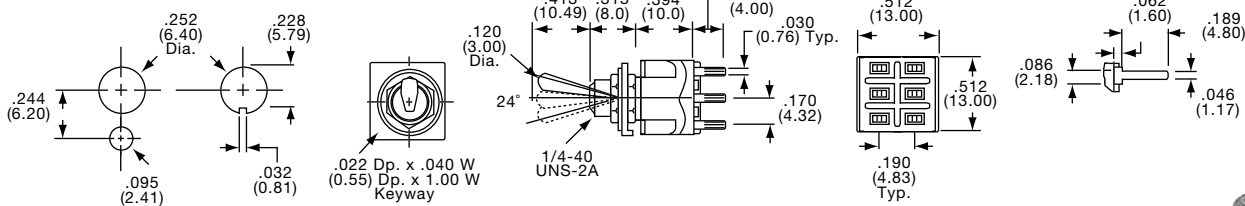
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On   |
|------------------|------------|------|-----------|-------|----|------|------|
| 1-1437558-1      | MTA106DPC  | SPDT | 1         |       | On | None | On   |
| 1-1437558-3      | MTA106EPC  | SPDT | 5         |       | On | Off  | On   |
| 1-1437558-5      | MTA106FPC  | SPDT | 1         |       | On | None | (On) |

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On   | Off | On   |
|------------------|------------|------|-----------|-------|------|-----|------|
| 1-1437558-7      | MTA106GPC  | SPDT | 5         |       | (On) | Off | (On) |
| 1-1437558-9      | MTA106HPC  | SPDT | 5         |       | On   | Off | (On) |

(On) indicates momentary position.

DPDT/SP3T



MTA206NPC

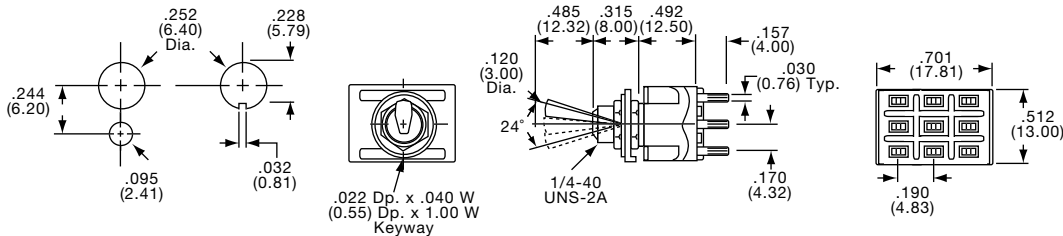
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On   | None | On   |
|------------------|------------|------|-----------|-------|------|------|------|
| 2-1437558-1      | MTA206NPC  | DPDT | 2         |       | On   | None | On   |
| 2-1437558-5      | MTA206PPC  | DPDT | 6         |       | On   | Off  | On   |
| 2-1437558-8      | MTA206RPC  | DPDT | 2         |       | On   | None | (On) |
| 3-1437558-1      | MTA206SPC  | DPDT | 6         |       | (On) | Off  | (On) |
| 3-1437558-4      | MTA206TPC  | DPDT | 6         |       | On   | Off  | (On) |

| Tyco Electronics | Alcoswitch  | Type | Act. Code | P. M5 | On   | On | On   |
|------------------|-------------|------|-----------|-------|------|----|------|
| 2-1437558-4      | *MTA206PAPC | SP3T | 11        |       | On   | On | On   |
|                  | MTA206SAPC  | SP3T | 11        |       | (On) | On | (On) |

(On) indicates momentary position.  
\* Note: PA types - case .100/(2.50) longer than other types.

3PDT



MTA306DPC

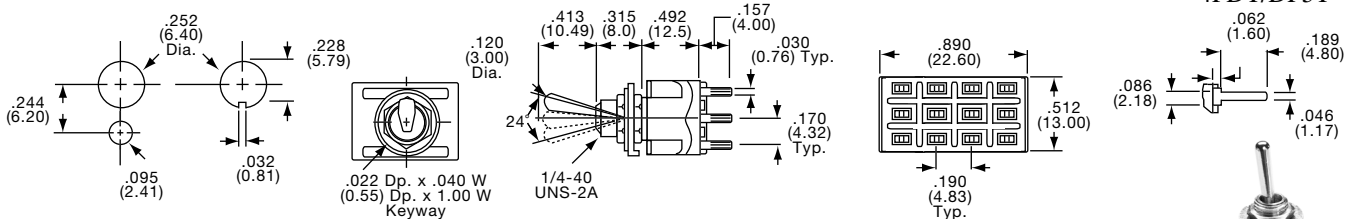
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On |
|------------------|------------|------|-----------|-------|----|------|----|
| 3-1437558-6      | MTA306DPC  | 3PDT | 3         |       | On | None | On |
| 3-1437558-8      | MTA306EPC  | 3PDT | 7         |       | On | Off  | On |

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | (On) |
|------------------|------------|------|-----------|-------|----|------|------|
| 4-1437558-0      | MTA306FPC  | 3PDT | 3         |       | On | None | (On) |
| 4-1437558-2      | MTA306HPC  | 3PDT | 7         |       | On | Off  | (On) |

(On) indicates momentary position.

4PDT/DP3T



MTA406NPC

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On |
|------------------|------------|------|-----------|-------|----|------|----|
| 4-1437558-4      | MTA406NPC  | 4PDT | 4         |       | On | None | On |
| 4-1437558-8      | MTA406PPC  | 4PDT | 8         |       | On | Off  | On |

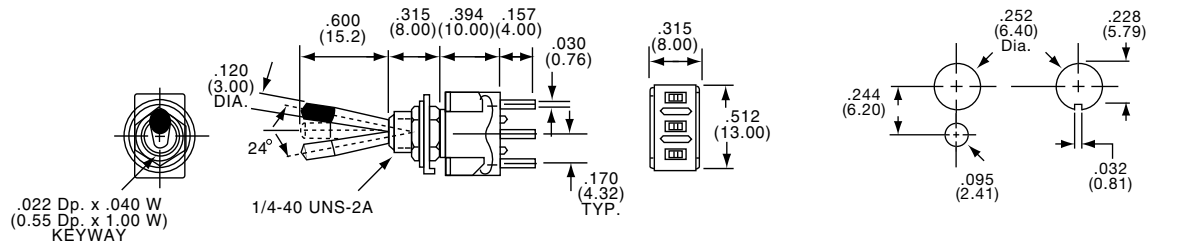
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | On | On |
|------------------|------------|------|-----------|-------|----|----|----|
| 4-1437558-7      | MTA406PAPC | DP3T | 12        |       | On | On | On |

## Toggle Switches, MT Series, Wire Lug, Decorative Bat Actuator

SEE PAGE C43 FOR PRODUCT SPECIFICATIONS

For terminal connections refer to Code Chart. (See Page M5-6)

SPDT



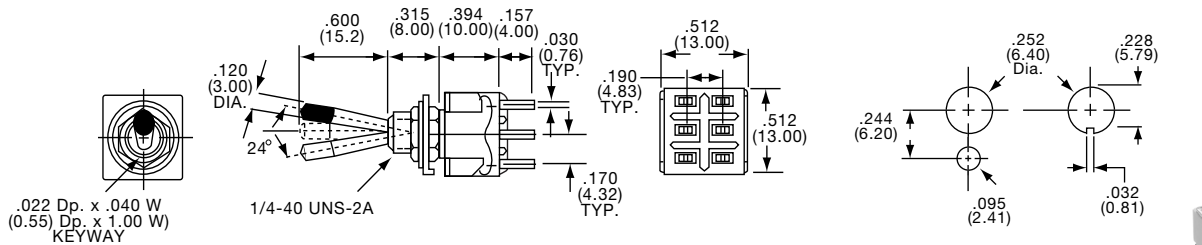
MTB106D

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On |
|------------------|------------|------|-----------|-------|----|------|----|
| 6-1437558-3      | MTB106D    | SPDT | 1         |       | On | None | On |
| 6-1437558-2      | MTB106E    | SPDT | 5         |       | On | Off  | On |

| Alcoswitch | Type | Act. Code | P. M5 | On   | None      | On   |
|------------|------|-----------|-------|------|-----------|------|
| MTB106F    | SPDT | 1         |       | On   | None (On) |      |
| MTB106G    | SPDT | 5         |       | (On) | Off       | (On) |

(On) indicates momentary position.

DPDT



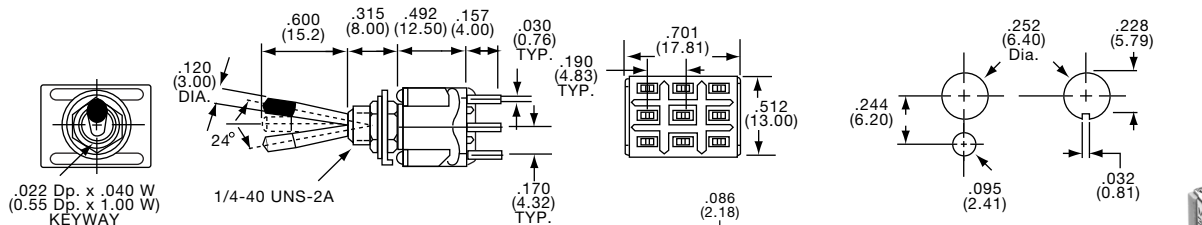
MTB206N

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On |
|------------------|------------|------|-----------|-------|----|------|----|
| 6-1437558-4      | MTB206N    | DPDT | 2         |       | On | None | On |
| 6-1437558-5      | MTB206P    | DPDT | 6         |       | On | Off  | On |

| Alcoswitch | Type | Act. Code | P. M5 | On | None | On   |
|------------|------|-----------|-------|----|------|------|
| MTB206T    | DPDT | 6         |       | On | Off  | (On) |

(On) indicates momentary position.

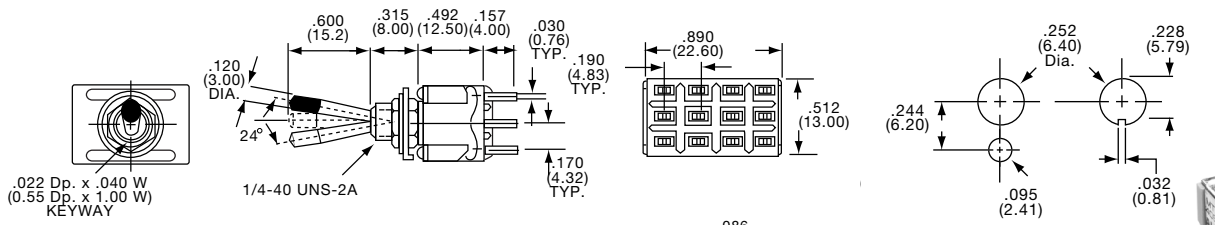
3PDT



MTB306D

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On |
|------------------|------------|------|-----------|-------|----|------|----|
| 6-1437558-6      | MTB306D    | 3PDT | 3         |       | On | None | On |

4PDT



MTB406N

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On |
|------------------|------------|------|-----------|-------|----|------|----|
| 6-1437558-7      | MTB406N    | 4PDT | 4         |       | On | None | On |

**Toggle Switches, MT Series, Wire Lug, Splashproof Bat Actuator**

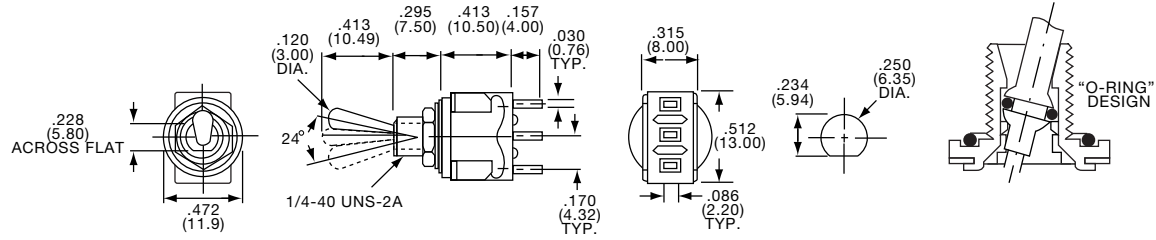
For terminal connections refer to Code Chart. (See Page M5-6)

SEE PAGE C43 FOR PRODUCT SPECIFICATIONS

**SPDT**



MTE106E



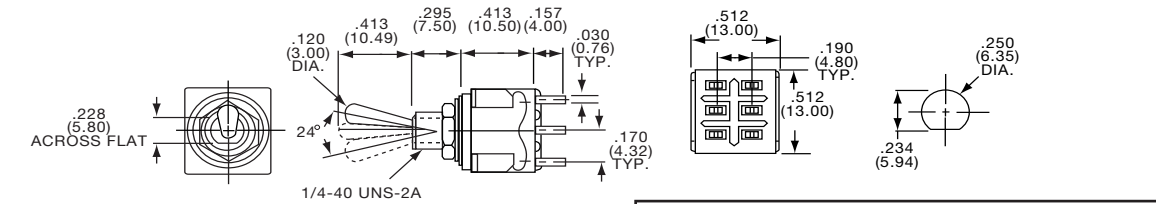
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On   | None | Off  |
|------------------|------------|------|-----------|-------|------|------|------|
| 6-1437558-8      | MTE106D    | SPDT | 1         |       | On   | None | On   |
| 6-1437558-9      | MTE106E    | SPDT | 5         |       | On   | Off  | On   |
| 7-1437558-0      | MTE106F    | SPDT | 1         |       | On   | None | (On) |
| 7-1437558-1      | MTE106G    | SPDT | 5         |       | (On) | Off  | (On) |
|                  | MTE106H    | SPDT | 5         |       | On   | Off  | (On) |

(On) indicates momentary position.

**DPDT/SP3T**



MTE206N



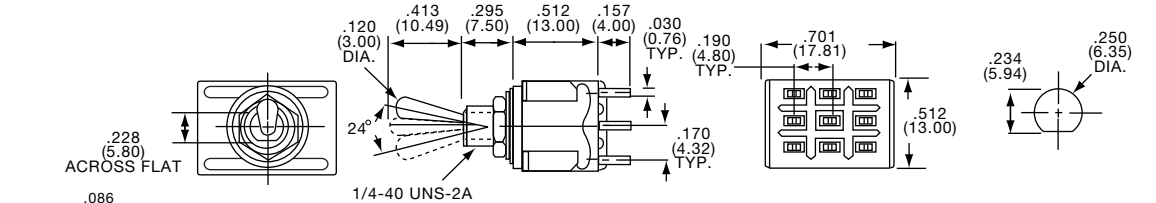
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On   | None | Off  |
|------------------|------------|------|-----------|-------|------|------|------|
| 7-1437558-2      | MTE206N    | DPDT | 2         |       | On   | None | On   |
| 7-1437558-3      | MTE206P    | DPDT | 6         |       | On   | Off  | On   |
| 7-1437558-5      | MTE206R    | DPDT | 2         |       | On   | None | (On) |
| 7-1437558-6      | MTE206S    | DPDT | 6         |       | (On) | Off  | (On) |
| 7-1437558-7      | MTE206T    | DPDT | 6         |       | On   | Off  | (On) |
| 7-1437558-4      | *MTE206PA  | SP3T | 11        |       | On   | On   | On   |

(On) indicates momentary position.  
\*Note: PA types have case .100/(2.50) longer than other types.

**3PDT**



MTE306D

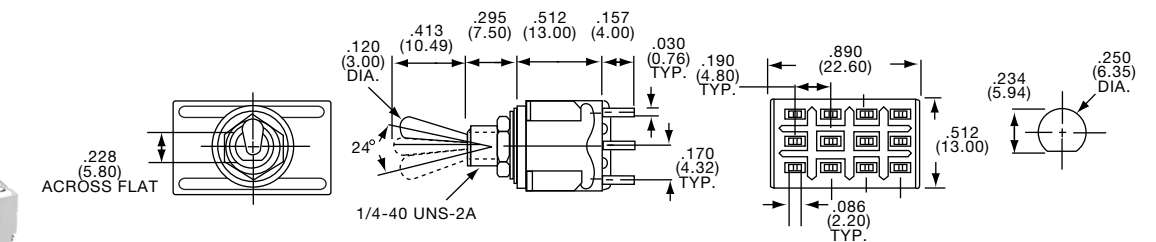


| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | Off |
|------------------|------------|------|-----------|-------|----|------|-----|
| 7-1437558-8      | MTE306D    | 3PDT | 3         |       | On | None | On  |
| 7-1437558-9      | MTE306E    | 3PDT | 7         |       | On | Off  | On  |

**4PDT**



MTE406N



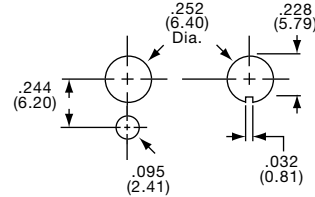
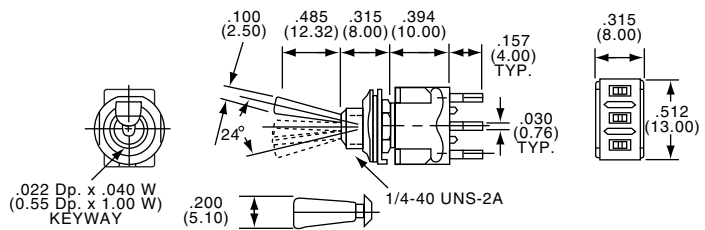
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | Off |
|------------------|------------|------|-----------|-------|----|------|-----|
| 8-1437558-0      | MTE406N    | 4PDT | 4         |       | On | None | On  |
| 8-1437558-1      | MTE406P    | 4PDT | 8         |       | On | Off  | On  |

## Toggle Switches, MT Series, Wire Lug, Flat Actuator

SEE PAGE C43 FOR PRODUCT SPECIFICATIONS

For terminal connections refer to Code Chart. (See Page M5-6)

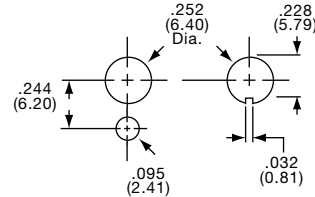
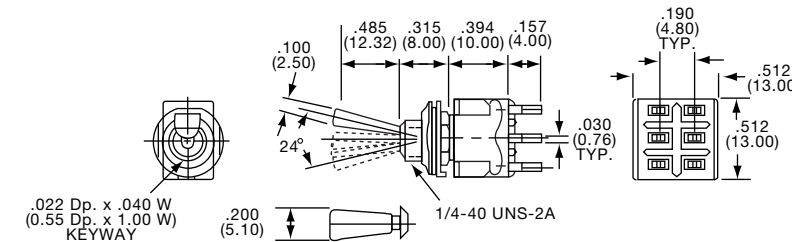
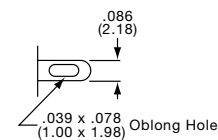
SPDT



MTF106D

| Satin Chrome<br>Tyco Electronics | Alcoswitch | Bright Chrome<br>Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On   | None | On   |
|----------------------------------|------------|-----------------------------------|------------|------|-----------------|------|------|------|
| 8-1437558-3                      | MTF106D    | 8-1437558-8                       | MTF126D    | SPDT | 1               | On   | None | On   |
| 8-1437558-4                      | MTF106E    | 8-1437558-9                       | MTF126E    | SPDT | 5               | On   | Off  | On   |
| 8-1437558-5                      | MTF106F    | 9-1437558-0                       | MTF126F    | SPDT | 1               | On   | None | (On) |
| 8-1437558-6                      | MTF106G    | 9-1437558-1                       | MTF126G    | SPDT | 5               | (On) | Off  | (On) |
| 8-1437558-7                      | MTF106H    |                                   |            | SPDT | 5               | On   | Off  | (On) |

(On) indicates momentary position.



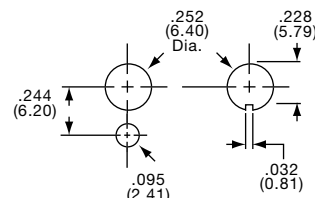
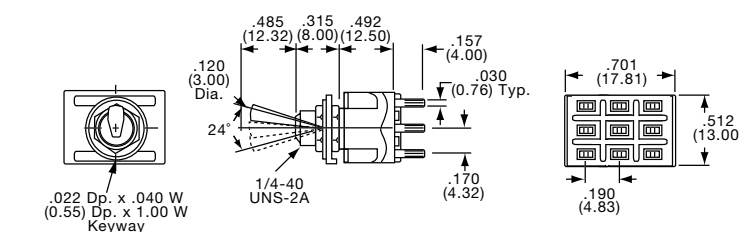
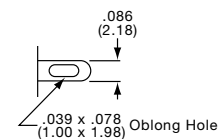
DPDT/SP3T



MTF206N

| Satin Chrome<br>Tyco Electronics | Alcoswitch | Bright Chrome<br>Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On   | None | On   |
|----------------------------------|------------|-----------------------------------|------------|------|-----------------|------|------|------|
| 9-1437558-2                      | MTF206N    | 9-1437558-9                       | MTF226N    | DPDT | 2               | On   | None | On   |
| 9-1437558-3                      | MTF206P    | 1437559-1                         | MTF226P    | DPDT | 6               | On   | Off  | On   |
| 9-1437558-5                      | MTF206R    |                                   |            | DPDT | 2               | On   | None | (On) |
| 9-1437558-6                      | MTF206S    | 1437559-4                         | MTF226S    | DPDT | 6               | (On) | Off  | (On) |
| 9-1437558-8                      | MTF206T    |                                   |            | DPDT | 6               | On   | Off  | (On) |
| 9-1437558-4                      | *MTF206PA  | 1437559-2                         | *MTF226PA  | SP3T | 11              | On   | On   | On   |
| 9-1437558-7                      | *MTF206SA  | 1437559-5                         | *MTF226SA  | SP3T | 11              | (On) | On   | (On) |

\*Note: PA & SA types have case .100/(2.50) longer than other types.

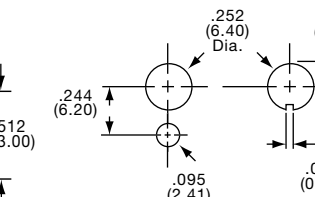
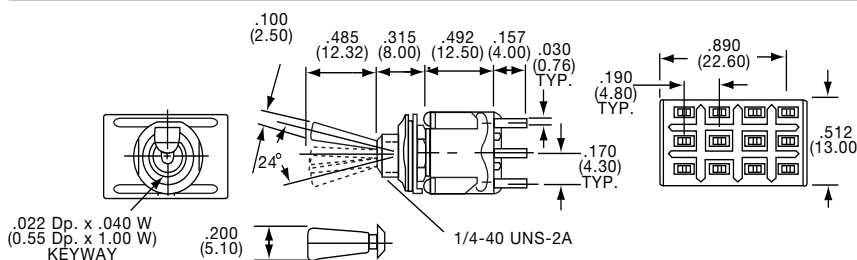
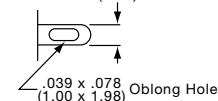


3PDT



MTF306D

| Satin Chrome<br>Tyco Electronics | Alcoswitch | Bright Chrome<br>Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | On |
|----------------------------------|------------|-----------------------------------|------------|------|-----------------|----|------|----|
| 1437559-6                        | MTF306D    | 1437559-7                         | MTF326D    | 3PDT | 3               | On | None | On |

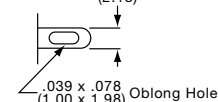


4PDT



MTF406N

| Satin Chrome<br>Tyco Electronics | Alcoswitch | Bright Chrome<br>Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | On |
|----------------------------------|------------|-----------------------------------|------------|------|-----------------|----|------|----|
| 1437559-8                        | MTF406N    | 1437559-9                         | MTF426N    | 4PDT | 4               | On | None | On |



**Toggle Switches, MT Series, Wire Lug, Short Mustang Actuator**

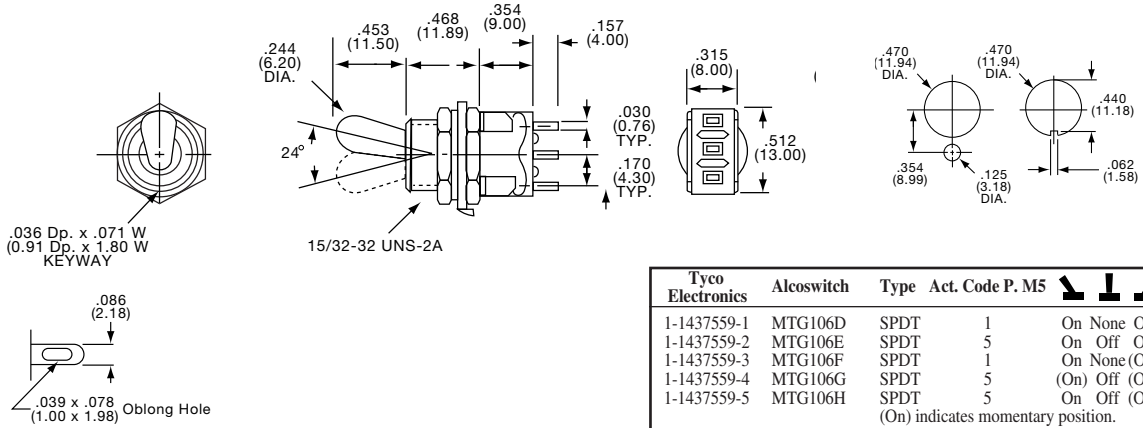
For terminal connections refer to Code Chart. (See Page M5-6)

SEE PAGE C43 FOR PRODUCT SPECIFICATIONS

**SPDT**



MTG106D



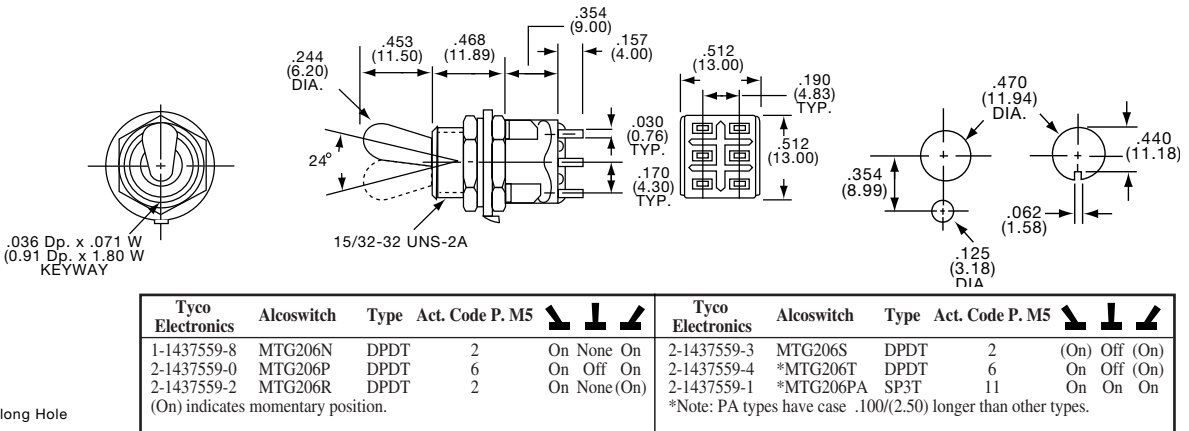
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On   | None | Off  |
|------------------|------------|------|-----------|-------|------|------|------|
| 1-1437559-1      | MTG106D    | SPDT | 1         |       | On   | None | On   |
| 1-1437559-2      | MTG106E    | SPDT | 5         |       | On   | Off  | On   |
| 1-1437559-3      | MTG106F    | SPDT | 1         |       | On   | None | (On) |
| 1-1437559-4      | MTG106G    | SPDT | 5         |       | (On) | Off  | (On) |
| 1-1437559-5      | MTG106H    | SPDT | 5         |       | On   | Off  | (On) |

(On) indicates momentary position.

**DPDT/SP3T**



MTG206N



| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | Off  |
|------------------|------------|------|-----------|-------|----|------|------|
| 1-1437559-8      | MTG206N    | DPDT | 2         |       | On | None | On   |
| 2-1437559-0      | MTG206P    | DPDT | 6         |       | On | Off  | On   |
| 2-1437559-2      | MTG206R    | DPDT | 2         |       | On | None | (On) |

(On) indicates momentary position.

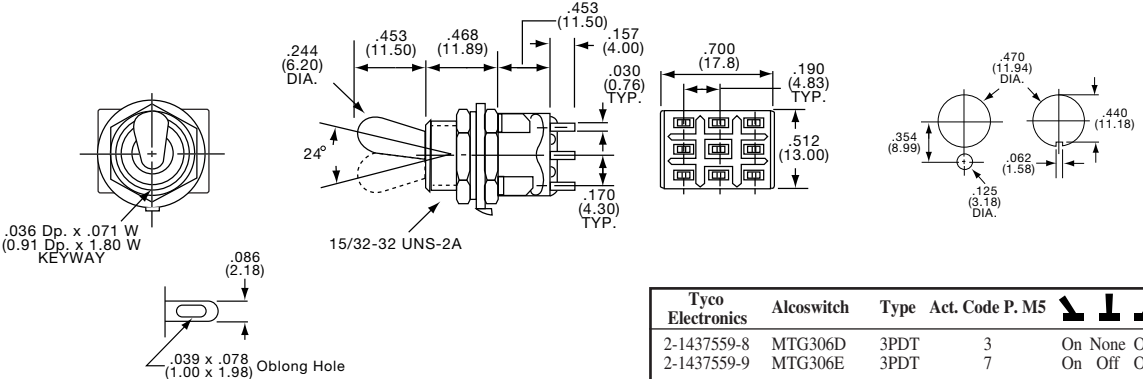
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On   | None | Off  |
|------------------|------------|------|-----------|-------|------|------|------|
| 2-1437559-3      | MTG206S    | DPDT | 2         |       | (On) | Off  | (On) |
| 2-1437559-4      | *MTG206T   | DPDT | 6         |       | On   | Off  | (On) |
| 2-1437559-1      | *MTG206PA  | SP3T | 11        |       | On   | On   | On   |

\*Note: PA types have case .100/(2.50) longer than other types.

**3PDT**



MTG306D

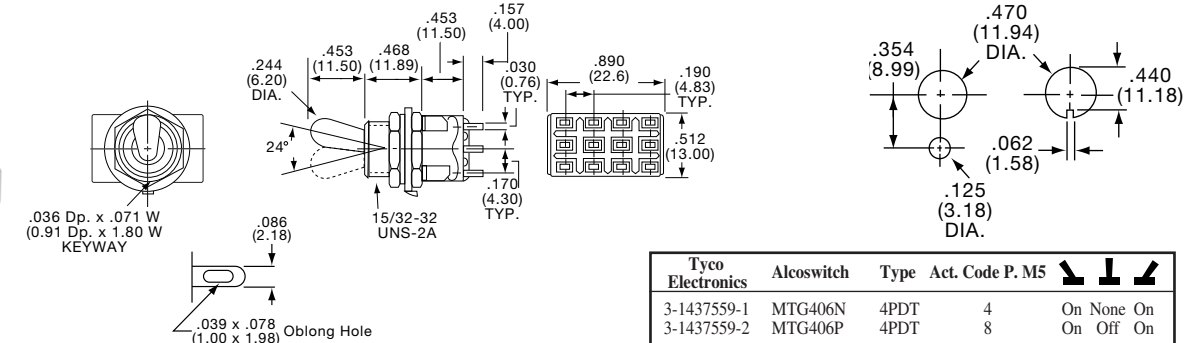


| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | Off |
|------------------|------------|------|-----------|-------|----|------|-----|
| 2-1437559-8      | MTG306D    | 3PDT | 3         |       | On | None | On  |
| 2-1437559-9      | MTG306E    | 3PDT | 7         |       | On | Off  | On  |

**4PDT**



MTG406N

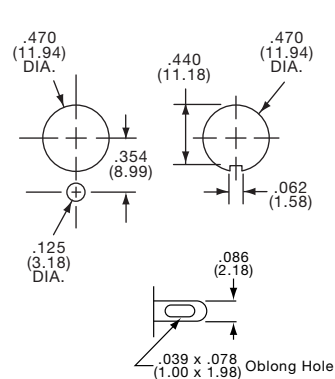
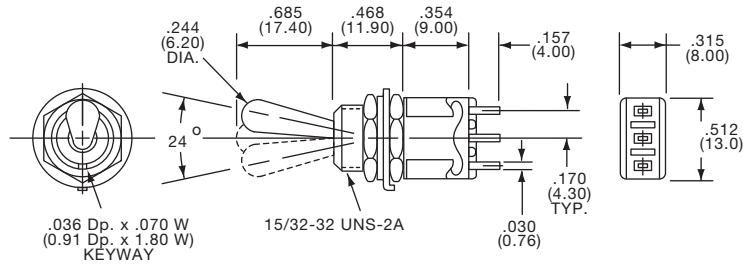


| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | Off |
|------------------|------------|------|-----------|-------|----|------|-----|
| 3-1437559-1      | MTG406N    | 4PDT | 4         |       | On | None | On  |
| 3-1437559-2      | MTG406P    | 4PDT | 8         |       | On | Off  | On  |

**Toggle Switches, MT Series, Wire Lug, Long Mustang Actuator**

SEE PAGE C43 FOR PRODUCT SPECIFICATIONS

For terminal connections refer to Code Chart. (See Page M5-6)

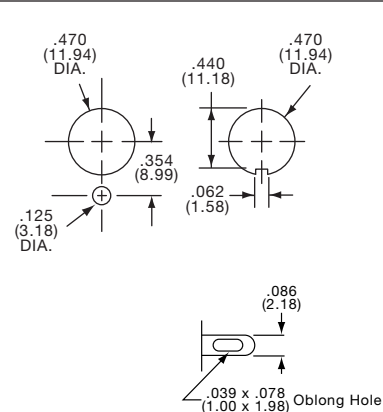
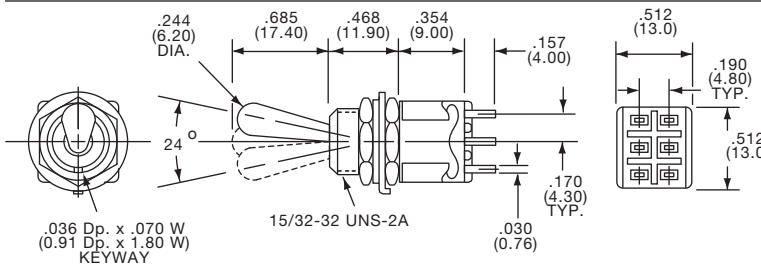


SPDT



MTG126D

| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | On |
|------------------|------------|------|-----------------|----|------|----|
| 1-1437559-6      | MTG126D    | SPDT | 1               | On | None | On |
| 1-1437559-7      | MTG126E    | SPDT | 5               | On | Off  | On |



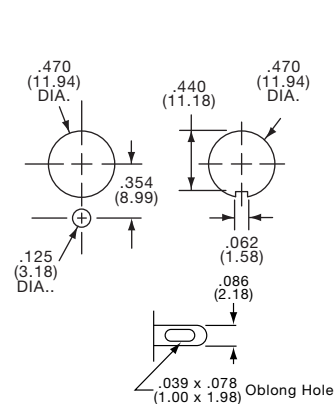
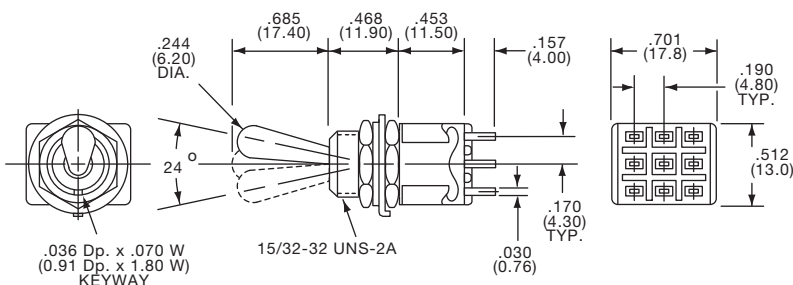
DPDT/SP3T



MTG226N

| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | On |
|------------------|------------|------|-----------------|----|------|----|
| 2-1437559-5      | MTG226N    | DPDT | 2               | On | None | On |
| 2-1437559-6      | MTG226P    | DPDT | 6               | On | Off  | On |
| 2-1437559-7      | *MTG226PA  | SP3T | 11              | On | On   | On |

\*Note: PA types have case .100/(2.50) longer than other types.

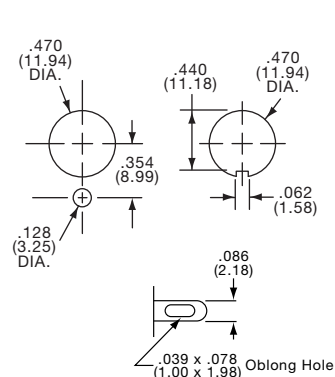
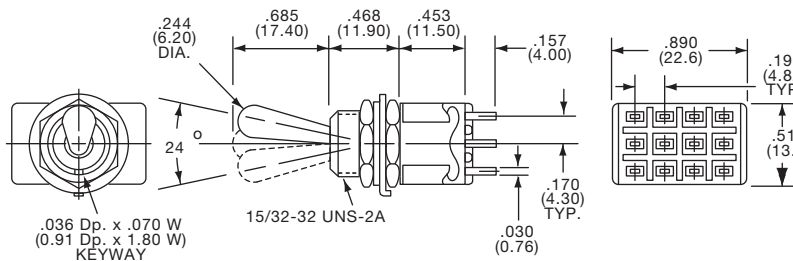


3PDT



MTG326D

| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | On |
|------------------|------------|------|-----------------|----|------|----|
| 3-1437559-0      | MTG326D    | 3PDT | 3               | On | None | On |



4PDT



MTG426N

| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | On |
|------------------|------------|------|-----------------|----|------|----|
| 3-1437559-3      | MTG426N    | 4PDT | 4               | On | None | On |

**Toggle Switches, MT Series, Wire Lug, Miniature Locking**

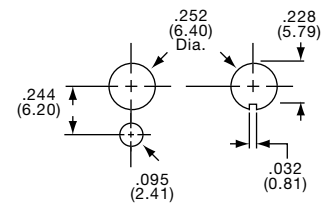
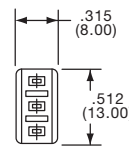
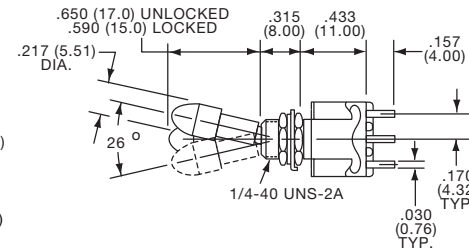
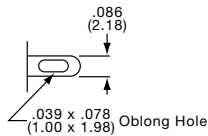
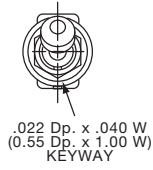
For terminal connections refer to Code Chart. (See Page M5-6)

SEE PAGE C43 FOR PRODUCT SPECIFICATIONS

**SPDT**



MTL106D

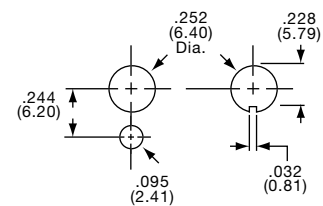
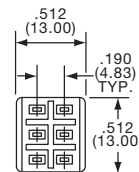
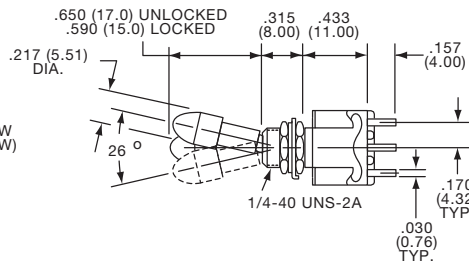
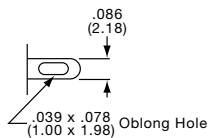
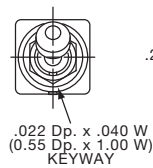


| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | On |
|------------------|------------|------|-----------------|----|------|----|
| 3-1437559-4      | MTL106D    | SPDT | 1               | On | None | On |
| 3-1437559-5      | MTL106E    | SPDT | 5               | On | Off  | On |

**DPDT/SP3T**



MTL206N



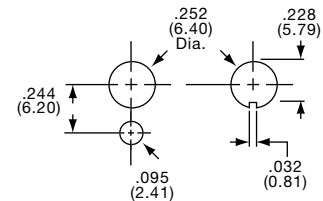
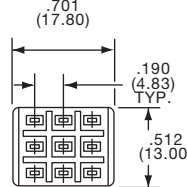
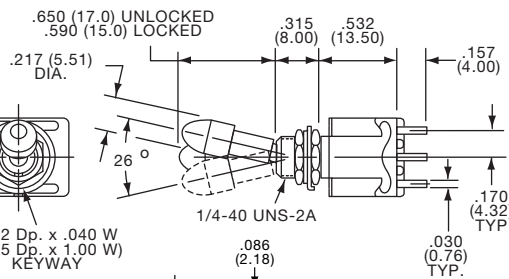
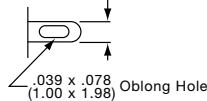
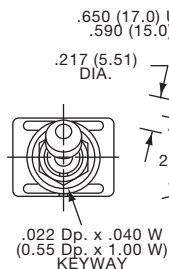
| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On   | None | On   |
|------------------|------------|------|-----------------|------|------|------|
| 3-1437559-7      | MTL206N    | DPDT | 2               | On   | None | On   |
| 3-1437559-9      | MTL206P    | DPDT | 6               | On   | Off  | On   |
| 4-1437559-1      | MTL206S    | DPDT | 6               | (On) | Off  | (On) |
| 4-1437559-0      | *MTL206PA  | SP3T | 11              | On   | On   | On   |

(On) indicates momentary position.  
\*Note: PA types have case .100/(2.50) longer than other types.

**3PDT**



MTL306D

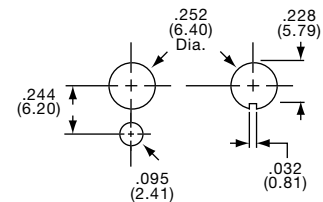
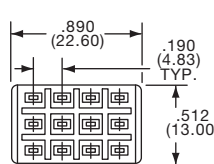
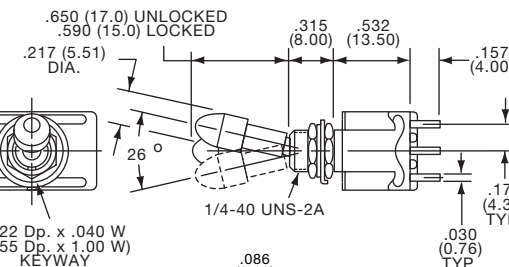
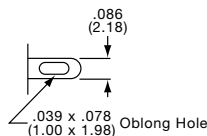
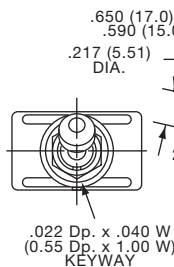


| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | On |
|------------------|------------|------|-----------------|----|------|----|
| 4-1437559-2      | MTL306D    | 3PDT | 3               | On | None | On |

**4PDT/DP3T**



MTL406N



| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | On | None | On |
|------------------|------------|------|-----------------|----|------|----|
| 4-1437559-4      | MTL406N    | 4PDT | 4               | On | None | On |
| 4-1437559-5      | *MTL406PA  | DP3T | 12              | On | On   | On |

\*Note: PA types have case .100/(2.50) longer than other types.

**Toggle Switches, MT Series, PC Tail, Short Bat Actuator**

SEE PAGE C43 FOR PRODUCT SPECIFICATIONS

For terminal connections refer to Code Chart. (See Page M5-6)

**SPDT**

1/4-40 UNS-2A

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None      | On |
|------------------|------------|------|-----------|-------|----|-----------|----|
| 4-1437559-6      | MTM106DPC  | SPDT | 1         |       | On | None      | On |
| 4-1437559-7      | MTM106EPC  | SPDT | 5         |       | On | Off       | On |
| 4-1437559-8      | MTM106FPC  | SPDT | 1         |       | On | None (On) |    |

(On) indicates momentary position.

**MTM106DPC**

**DPDT/SP3T**

1/4-40 UNS-2A

| Tyco Electronics | Alcoswitch  | Type | Act. Code | P. M5 | On   | None | On   |
|------------------|-------------|------|-----------|-------|------|------|------|
| 4-1437559-9      | MTM206NPC   | DPDT | 2         |       | On   | None | On   |
| 5-1437559-2      | MTM206SPC   | DPDT | 6         |       | (On) | Off  | (On) |
| 5-1437559-0      | *MTM206PAPC | SP3T | 11        |       | On   | On   | On   |

(On) indicates momentary position.  
.\*Note: PA types have case .100/(2.50) longer than other types.

**MTM206NPC**

**3PDT**

1/4-40 UNS-2A

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On |
|------------------|------------|------|-----------|-------|----|------|----|
| 5-1437559-3      | MTM306DPC  | 3PDT | 3         |       | On | None | On |

**MTM306DPC**

**4PDT**

1/4-40 UNS-2A

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | On | None | On |
|------------------|------------|------|-----------|-------|----|------|----|
| 5-1437559-4      | MTM406NPC  | 4PDT | 4         |       | On | None | On |

**MTM406NPC**

## Toggle Switches, MT Series, Right Angle, Long or Short Bat Actuator

### MATERIAL SPECIFICATIONS:

|                         |                                              |
|-------------------------|----------------------------------------------|
| Contacts .....          | Silver over copper alloy                     |
| Actuator Material ..... | Chrome plated copper alloy                   |
| Case Material .....     | Thermostat 94V-0                             |
| Bushings .....          | RA Termination Nickel Plated<br>Copper Alloy |
| Terminals .....         | WW & VRA are zinc alloy                      |
| Terminal Seal .....     | Silver plated copper alloy                   |
|                         | Epoxy                                        |

## ENVIRONMENTAL SPECIFICATIONS

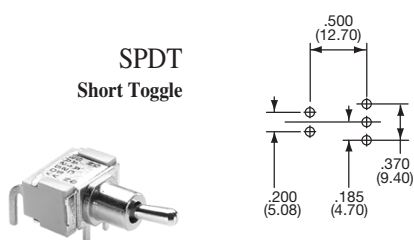
Operating Temperature .....-4°F to +176°F (-20°C to +85°C)  
Storage Temperature .....-40°F to +176°F (-40°C to +85°C)

Note: Hardware included with switches

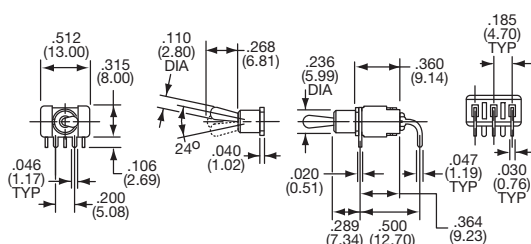
### TYPICAL PERFORMANCE CHARACTERISTICS:

|                                 |                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------|
| Contact Rating .....            | RA & VRA 6A @ 125VAC/3A<br>250VAC<br>WW is 6A @ 125VAC                                |
| Initial Contact Resistance..... | 20 Milliohms max.                                                                     |
| Contact Timing.....             | Break before make                                                                     |
| Insulation Resistance .....     | 1,000 Megohms min. @ 500 VDC<br>min. for 1 minute                                     |
| Dielectric Strength .....       | 1,000 VAC                                                                             |
| Actuation Force .....           | 05-1.5 kg.                                                                            |
| Actuator Travel .....           | 24°                                                                                   |
| Life Expectancy .....           | Up to 50,000 Cycles Minimum<br>Maintained<br>Up to 20,000 Cycles Minimum<br>Momentary |

**For terminal connections refer to Code Chart. (See Page M5-6)**



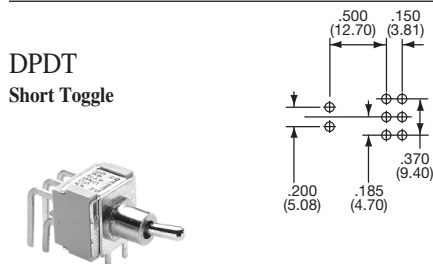
SPDT  
Short Toggle



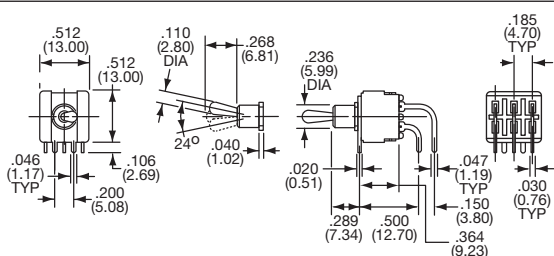
### Horizontal Actuation

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 |  |  |  | Toggle | Bushing |
|------------------|------------|------|-----------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|---------|
| 5-1437559-6      | MTM8106DRA | SPDT | 1         |       | On                                                                                  | None                                                                                | On                                                                                  | .270   | .250    |
| 5-1437559-8      | MTM8106ERA | SPDT | 5         |       | On                                                                                  | Off                                                                                 | On                                                                                  | .270   | .250    |
| 147681-1         | MTM8106FRA | SPDT | 1         |       | (On)                                                                                | None                                                                                | On                                                                                  | .270   | .250    |

(On) indicates momentary position.



DPDT  
Short Toggle

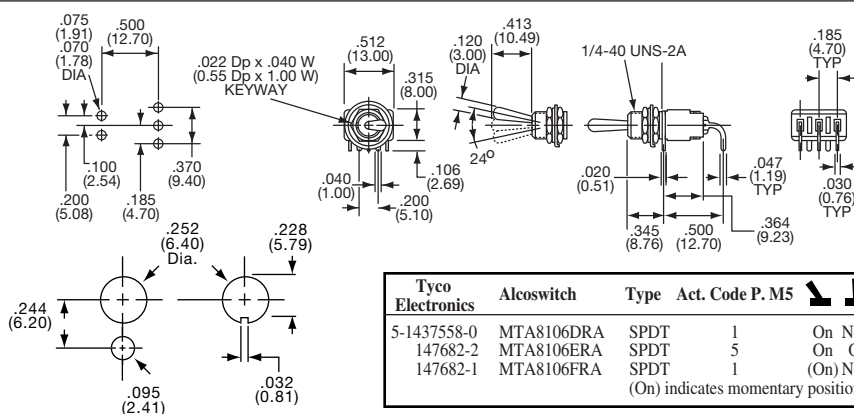


### Horizontal Actuation

| Tyco Electronics        | Alcoswitch | Type | Act. Code | P. M5 |  |  |  | Toggle | Bushing |
|-------------------------|------------|------|-----------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------|---------|
| 6-1437559-0<br>147674-1 | MTM8206NRA | DPDT | 2         | On    | None                                                                                  | On                                                                                    |                                                                                       | .270   | .250    |
|                         | MTM8206PRA | DPDT | 6         | On    | Off                                                                                   | On                                                                                    |                                                                                       | .270   | .250    |
|                         | MTM8206RRA | DPDT | 2         | (On)  | None                                                                                  | On                                                                                    |                                                                                       | .270   | .250    |



SPDT  
Standard Toggle



### Horizontal Actuation

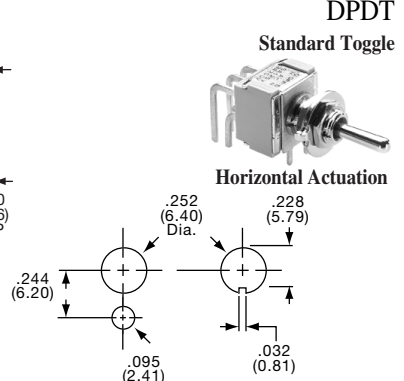
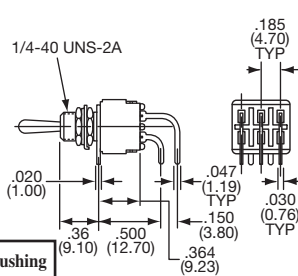
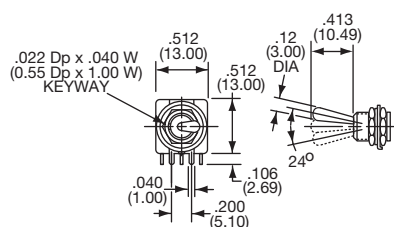
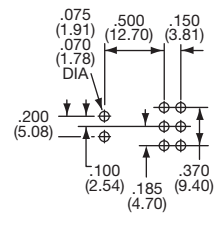
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 |  |  |  | Toggle | Bushing |
|------------------|------------|------|-----------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------|---------|
| 5-1437558-0      | MTA8106DRA | SPDT | 1         | On    | None                                                                                  | On                                                                                    | .410                                                                                  | 1/4-40 |         |
| 147682-2         | MTA8106ERA | SPDT | 5         | On    | Off                                                                                   | On                                                                                    | .410                                                                                  | 1/4-40 |         |
| 147682-1         | MTA8106FRA | SPDT | 1         | (On)  | None                                                                                  | On                                                                                    | .410                                                                                  | 1/4-40 |         |

(On) indicates momentary position.

# Toggle Switches, MT Series, Right Angle, Long or Short Bat Actuator

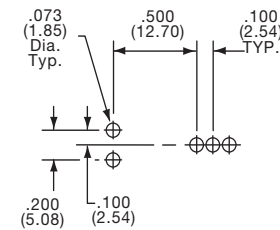
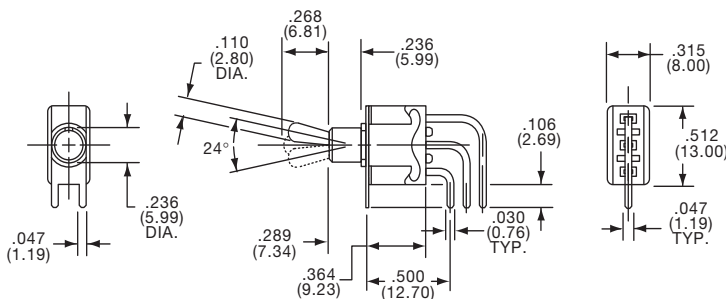
SEE PAGE C52 FOR PRODUCT SPECIFICATIONS

For terminal connections refer to Code Chart. (See Page M5-6)

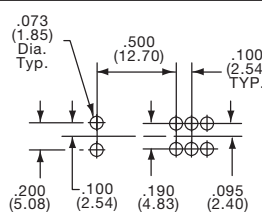
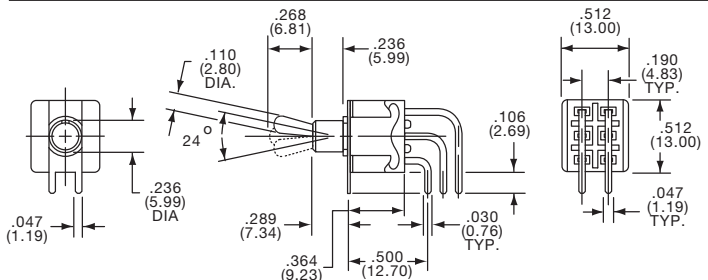


| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5        | Toggle | Bushing |
|------------------|------------|------|-----------|--------------|--------|---------|
| 5-1437558-6      | MTA8206NRA | DPDT | 2         | On None On   | .410   | 1/4-40  |
| 5-1437558-9      | MTA8206PRA | DPDT | 6         | On Off On    | .410   | 1/4-40  |
|                  | MTA8206RRA | DPDT | 2         | (On) None On | .410   | 1/4-40  |

(On) indicates momentary position.

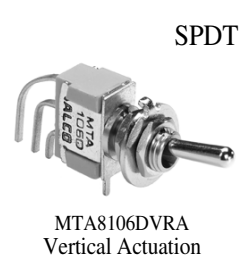
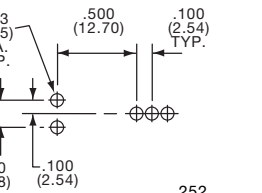
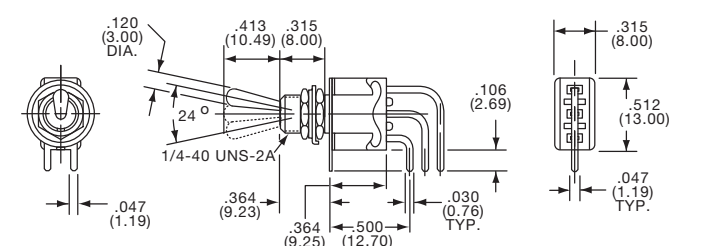


| Tyco Electronics | Alcoswitch  | Type | Act. Code | P. M5      | Short Toggle | Bushing |
|------------------|-------------|------|-----------|------------|--------------|---------|
| 5-1437559-7      | MTM8106DVRA | SPDT | 1         | On None On | .270         | .250    |
| 5-1437559-9      | MTM8106EVRA | SPDT | 5         | On Off On  | .270         | .250    |



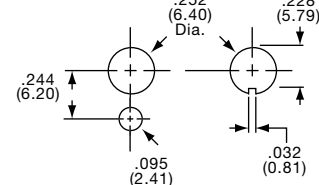
| Tyco Electronics | Alcoswitch  | Type | Act. Code | P. M5        | Short Toggle | Bushing |
|------------------|-------------|------|-----------|--------------|--------------|---------|
| 1417566-1        | MTM8206NVRA | DPDT | 1         | On None On   | .270         | .250    |
|                  | MTM8206PVRA | DPDT | 5         | On Off On    | .270         | .250    |
| 147673-2         | MTM8206RVRA | DPDT | 1         | On None (On) | .270         | .250    |

(On) indicates momentary position.



| Tyco Electronics | Alcoswitch  | Type | Act. Code | P. M5        | Short Toggle | Bushing |
|------------------|-------------|------|-----------|--------------|--------------|---------|
| 5-1437558-1      | MTA8106DVRA | SPDT | 1         | On None On   | .410         | 1/4-40  |
| 147676-1         | MTA8106EVRA | SPDT | 5         | On Off On    | .410         | 1/4-40  |
|                  | MTA8106FVRA | SPDT | 1         | On None (On) | .410         | 1/4-40  |

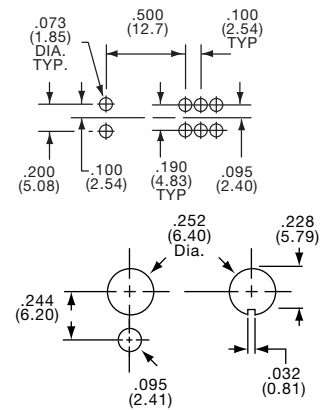
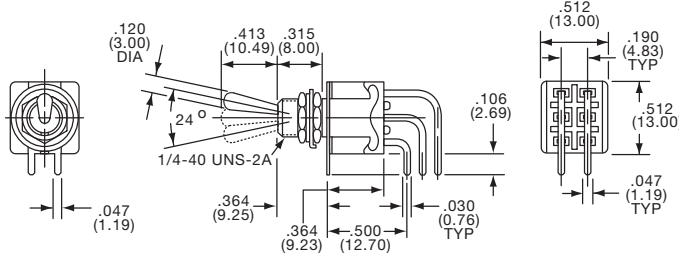
(On) indicates momentary position.



**Toggle Switches, MT Series, Right Angle, Long or Short Bat Actuator**

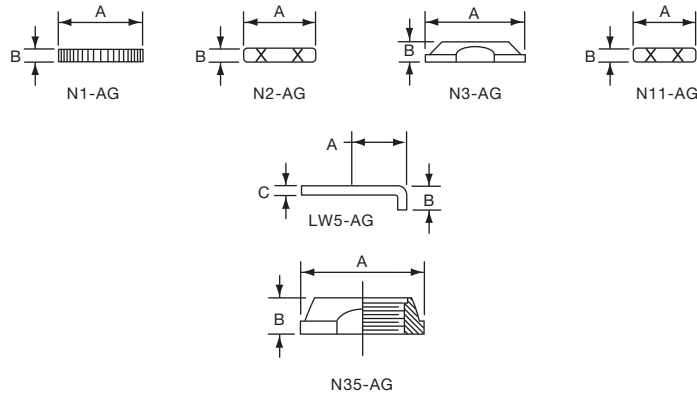
SEE PAGE C52 FOR PRODUCT SPECIFICATIONS

DPDT



| Tyco Electronics | Alcoswitch  | Type | Act. Code | P. M5 | On | None | Off | Short Toggle | Bushing |
|------------------|-------------|------|-----------|-------|----|------|-----|--------------|---------|
| 5-1437558-7      | MTA8206NVRA | DPDT | 1         |       | On | None | On  | .410         | 1/4-40  |
| 6-1437558-0      | MTA8206PVRA | DPST | 5         |       | On | Off  | On  | .410         | 1/4-40  |

**Toggle Switches, Hardware and Accessories**



**STANDARD AND DECORATIVE MOUNTING HARDWARE**

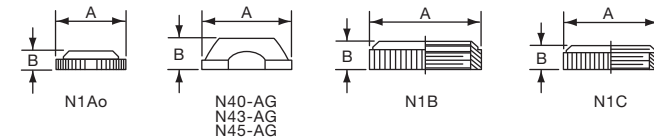
Fits all miniature toggle and pushbutton switches with 1/4-40 bushings. N1 and N3 nuts are recommended as styling options.



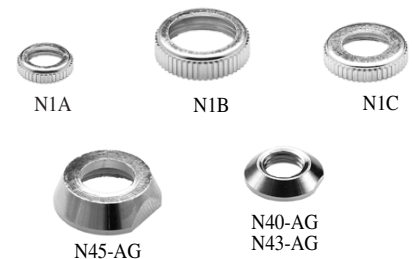
| Tyco Electronics | Alcoswitch   | Description            | Diameter | Finish        | A    | Dim. B | C    |
|------------------|--------------|------------------------|----------|---------------|------|--------|------|
| 1437628-7        | N1-AG        | Knurled Nut            | 1/4-40   | Bright Nickel | .350 | .060   |      |
| 1437561-9        | 10264-00-120 | Hex Nut                | 1/4-40   | Bright Nickel | .312 | .062   |      |
| 1-1437628-3      | N3-AG        | Dress Nut              | 1/4-40   | Bright Nickel | .460 | .090   |      |
| 1-1437561-2      | 11106-AG     | Hex Nut                | 10-48    | Bright Nickel | .281 | .047   |      |
| 1-1437628-4      | N35-AG       | Dress Nut              | 15/32-32 | Chrome Plate  | .630 | .170   |      |
| 1437628-2        | LW1          | Int. Tooth Lock Washer | 1/4-40   | Bright Nickel | .406 | .024   |      |
| 1437628-5        | LW5-AG       | Locking Ring           | 1/4"     | Bright Nickel | .200 | .086   | .032 |
| 1437628-3        | LW12-AG      | Lock Washer            | No. 10   | Bright Nickel | .315 | .035   | .035 |

**"PERFECT FIT" DECORATIVE MOUNTING HARDWARE**

Use blind threaded nuts for ultimate appearance. Finger tighten until nut rests on ridge - Final tightening with back-up nut.



| Tyco Electronics | Alcoswitch | Description | Diameter | Finish        | A    | Dim. B |
|------------------|------------|-------------|----------|---------------|------|--------|
| 1437628-9        | N1A        | Knurled Nut | 1/4-40   | Chrome Plate  | .315 | .080   |
| 1-1437628-0      | N1B        | Knurled Nut | 15/32-32 | Bright Nickel | .562 | .140   |
| 1-1437628-1      | N1C        | Knurled Nut | 3/8-32   | Bright Nickel | .469 | .093   |
| 1-1437628-5      | N40-AG     | Dress Nut   | 1/4-40   | Matte Nickel  | .375 | .120   |
| 1-1437628-6      | N43-AG     | Dress Nut   | 1/4-40   | Bright Nickel | .375 | .120   |
| 1-1437628-7      | N45-AG     | Dress Nut   | 15/32-32 | Chrome Plate  | .630 | .170   |



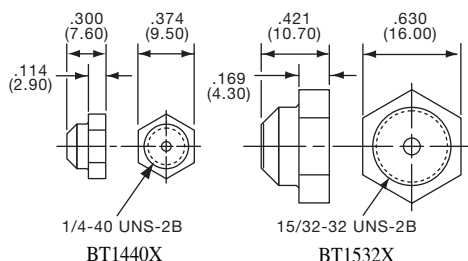


SPA32

## Toggle Switches, Legend Plates, Boot Seals

Constructed of .025 gauge brushed aluminum, finished with scratch resistant matte black enamel. Easily readable & aesthetically attractive.

| Tyco Electronics | Alcoswitch | Description                         | Dim. |       |
|------------------|------------|-------------------------------------|------|-------|
|                  |            |                                     | A    | B     |
| 2-1437628-4      | SPA32      | On-Off (for 1/4" diameter switch)   | .375 | .880  |
| 2-1437628-6      | SPA42      | On-Off (for 15/32" diameter switch) | .680 | 1.125 |



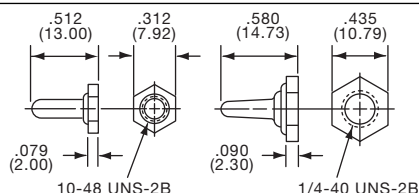
### 1/4-40 & 15/32-32 TOGGLE SWITCH BOOT SEALS

Splashproof seals especially designed for toggle switches having longer actuators. They are also highly recommended for 3-position maintained toggle switches where full-cover boots may have a tendency to pull the toggle back to center. No O-Ring required. These boot seals are not recommended for use with flat toggles.

| Tyco Electronics | Alcoswitch | Mount Color | Boot Color | Thread Size | Use With Switch Type |
|------------------|------------|-------------|------------|-------------|----------------------|
| 3-1437626-6      | BT14400    | Black       | Black      | 1/4-40      | TT, MTA, Gemini      |
|                  | BT14402    | Red         | Red        | 1/4-40      | TT, MTA, Gemini      |
|                  | BT14408    | Gray        | Gray       | 1/4-40      | TT, MTA, Gemini      |
| 3-1437626-7      | BT15320    | Black       | Black      | 15/32-32    | MTG Series           |
| 3-1437626-8      | BT15322    | Red         | Red        | 15/32-32    | MTG Series           |
| 3-1437626-9      | BT15328    | Gray        | Gray       | 15/32-32    | MTG Series           |



BT1440



### 10-48 & 1/4-40 TOGGLE SWITCH BOOT SEALS

Splashproof seals designed for "TINY" and miniature switches with bat toggles up to .370" long. A hex nut is integrally bonded to the Neoprene boot. No O-Ring is required.

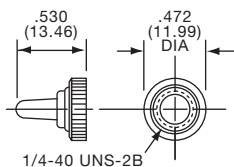
| Tyco Electronics | Alcoswitch | Mount Color | Boot Color | Thread Size | Use With Switch Type |
|------------------|------------|-------------|------------|-------------|----------------------|
| 1437626-1        | B10480     | Black       | Black      | 10-48       | TT Series            |
| 1437626-2        | B10482     | Red         | Red        | 10-48       | TT Series            |
| 1437626-3        | B10488     | Gray        | Gray       | 10-48       | TT Series            |
| 1437626-4        | B14400     | Black       | Black      | 1/4-40      | TT, MTA, Gemini      |
| 1437626-5        | B14402     | Red         | Red        | 1/4-40      | TT, MTA, Gemini      |
| 1437626-6        | B14408     | Gray        | Gray       | 1/4-40      | TT, MTA, Gemini      |



B14400



B10480



### 1/4-40 TOGGLE SWITCH BOOT SEALS

Splashproof toggle seals having 1/4-40 blind nuts integrally mounted on the Black Neoprene seal. Supplied with captive O-Ring to complete the panel seal. Accepts bat toggles from .375" to .468" long.

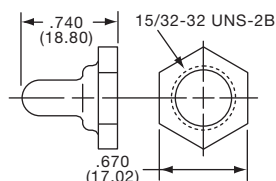
| Tyco Electronics | Alcoswitch | Mount Color | Boot Color | Thread Size | Use With Switch Type      |
|------------------|------------|-------------|------------|-------------|---------------------------|
| 1-1437626-0      | B2100      | Nickel      | Black      | 1/4-40      | TT, Gemini and MTA Series |
| 1-1437626-1      | B2210      | Black       | Black      | 1/4-40      | TT, Gemini and MTA Series |



B2100



B2210



### 15/32-32 TOGGLE SWITCH BOOT SEALS

Splashproof toggle seals incorporating a molded-in hex nut for water tight & dust tight protection. Recommended for standard size toggle switches with short to medium length toggle levers. Replaces standard hardware usually supplied with the switch.

| Tyco Electronics | Alcoswitch | Mount Color | Boot Color | Thread Type | Use With Switch Type                 |
|------------------|------------|-------------|------------|-------------|--------------------------------------|
| 1437626-7        | B15320     | Black       | Black      | 15/32-32    | MTG Series, Gemini "T", "T1" Options |
| 1437626-8        | B15322     | Red         | Red        | 15/32-32    | MTG Series, Gemini "T", "T1" Options |
| 1437626-9        | B15328     | Gray        | Gray       | 15/32-32    | MTG Series, Gemini "T", "T1" Options |

B15320



## Engineering Notes

C

Engineering Notes