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

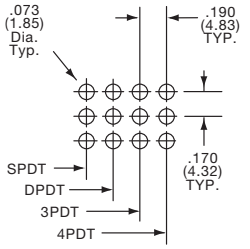
## MATERIAL SPECIFICATIONS:

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

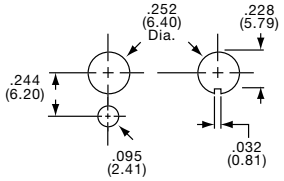
## ENVIRONMENTAL SPECIFICATIONS

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.




PC Board Layout
For Pages C43-C57




Toggle Switch Hole Layout
for this page.

## 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**

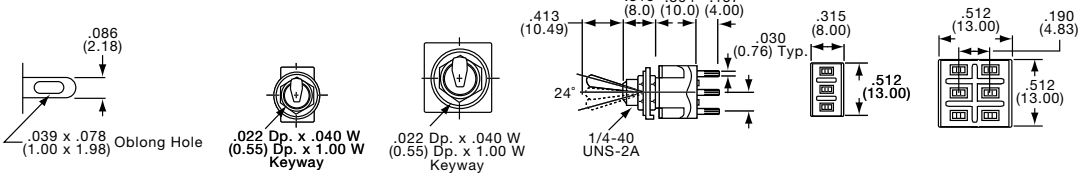
| Parameter | 2 Pos. | 3 Pos. | Momentary |
|---|---|---|---|
| Mechanical (no load) | 150,000 | 100,000 | 60,000 |
| 250AC (3A Resistive) | 80,000 | 60,000 | 60,000 |
| 125AC (6A Resistive) | 80,000 | 60,000 | 60,000 |
| 28DC(4) (Resistive) | 60,000 | 50,000 | 40,000 |



## SPDT/DPDT/SP3T

MTA106D






MTA206N



| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|---|---|---|---|---|---|---|---|
| 1-1437558-0 | MTA106D | SPDT | 1 | | On | None | On |
| 1-1437558-2 | MTA106E | SPDT | 5 | | On | Off | On |
| 1-1437558-4 | MTA106F | SPDT | 1 | | On | None | (On) |
| 1-1437558-6 | MTA106G | SPDT | 5 | | (On) | Off | (On) |
| 1-1437558-8 | MTA106H | SPDT | 5 | | On | Off | (On) |

(On) indicates momentary position.

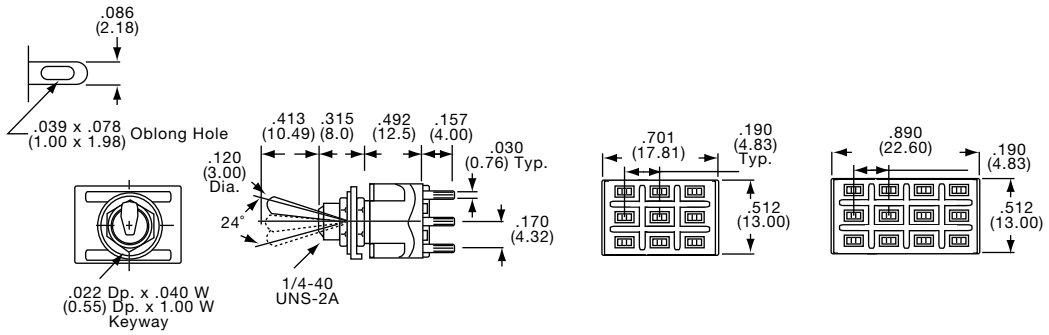
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|---|---|---|---|---|---|---|---|
| 2-1437558-0 | MTA206N | DPDT | 2 | | On | None | On |
| 2-1437558-2 | MTA206P | DPDT | 6 | | On | Off | On |
| 2-1437558-7 | MTA206R | DPDT | 2 | | On | None | (On) |
| 2-1437558-9 | MTA206S | DPDT | 6 | | (On) | Off | (On) |
| 3-1437558-2 | MTA206T | DPDT | 6 | | On | Off | On |
| 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

MTA306D






MTA406N



| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|---|---|---|---|---|---|---|---|
| 3-1437558-5 | MTA306D | 3PDT | 3 | | On | None | On |
| 3-1437558-7 | MTA306E | 3PDT | 7 | | On | Off | On |
| 3-1437558-9 | MTA306F | 3PDT | 3 | | On | None | (On) |
| 4-1437558-1 | MTA306H | 3PDT | 7 | | On | Off | (On) |

(On) indicates momentary position.

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|---|---|---|---|---|---|---|---|
| 4-1437558-3 | MTA406N | 4PDT | 4 | | On | None | On |
| 4-1437558-5 | MTA406P | 4PDT | 8 | | On | Off | On |
| 4-1437558-6 | *MTA406PA | DP3T | 12 | | On | On | On |

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



Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

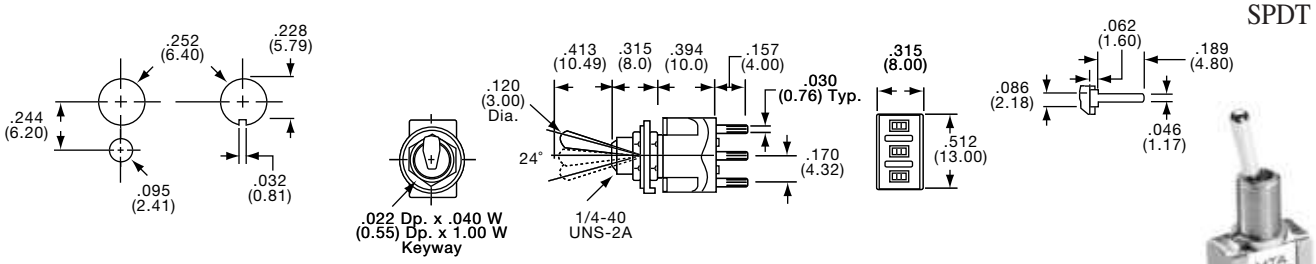
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

# 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

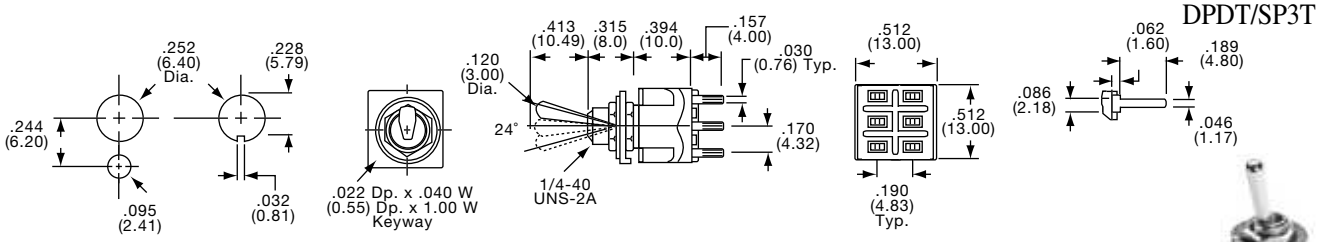





| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | | Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-1437558-1 | MTA106DPC | SPDT | 1 | | On | None | On | 1-1437558-7 | MTA106GPC | SPDT | 5 | | (On) | Off | (On) |
| 1-1437558-3 | MTA106EPC | SPDT | 5 | | On | Off | On | 1-1437558-9 | MTA106HPC | SPDT | 5 | | On | Off | (On) |
| 1-1437558-5 | MTA106FPC | SPDT | 1 | | On | None | (On) | (On) indicates momentary position. | | | | | | | |

MTA106DPC

## DPDT/SP3T

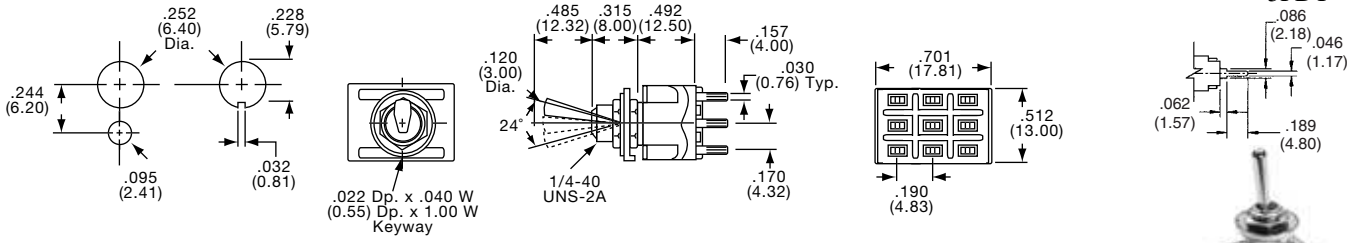





| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | | Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-1437558-1 | MTA206NPC | DPDT | 2 | | On | None | On | 2-1437558-4 | *MTA206PAPC | SP3T | 11 | | On | On | On |
| 2-1437558-5 | MTA206PPC | DPDT | 6 | | On | Off | On | | MTA206SAPC | SP3T | 11 | | (On) | On | (On) |
| 2-1437558-8 | MTA206RPC | DPDT | 2 | | On | None | (On) | (On) indicates momentary position. | | | | | | | |
| 3-1437558-1 | MTA206SPC | DPDT | 6 | | (On) | Off | (On) | * Note: PA types - case .100/(2.50) longer than other types. | | | | | | | |
| 3-1437558-4 | MTA206TPC | DPDT | 6 | | On | Off | (On) | | | | | | | | |

MTA206NPC

## 3PDT

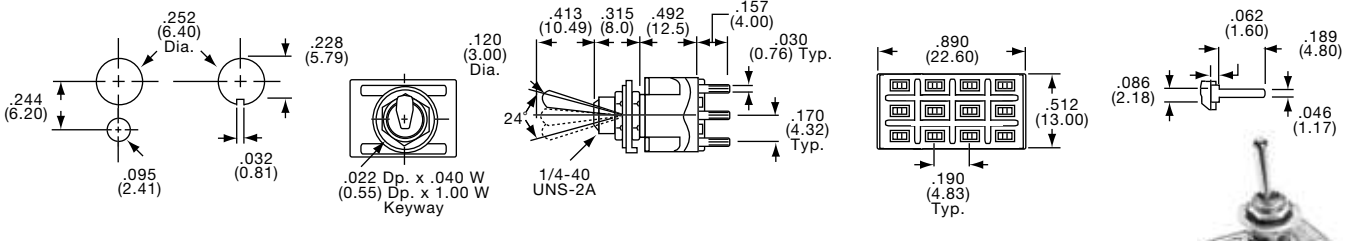





| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | | Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3-1437558-6 | MTA306DPC | 3PDT | 3 | | On | None | On | 4-1437558-0 | MTA306FPC | 3PDT | 3 | | On | None | (On) |
| 3-1437558-8 | MTA306EPC | 3PDT | 7 | | On | Off | On | 4-1437558-2 | MTA306HPC | 3PDT | 7 | | On | Off | (On) |
| | | | | | | | | (On) indicates momentary position. | | | | | | | |

MTA306DPC

## 4PDT/DP3T






| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | | Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1437558-4 | MTA406NPC | 4PDT | 4 | | On | None | On | 4-1437558-7 | MTA406PAPC | DP3T | 12 | | On | On | On |
| 4-1437558-8 | MTA406PPC | 4PDT | 8 | | On | Off | On | | | | | | | | |

MTA406NPC



Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

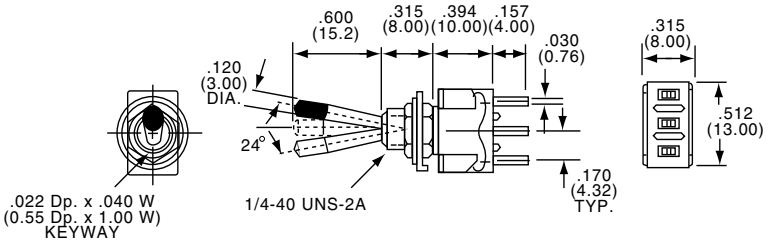
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

## 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



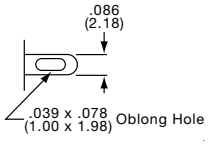



MTB106D

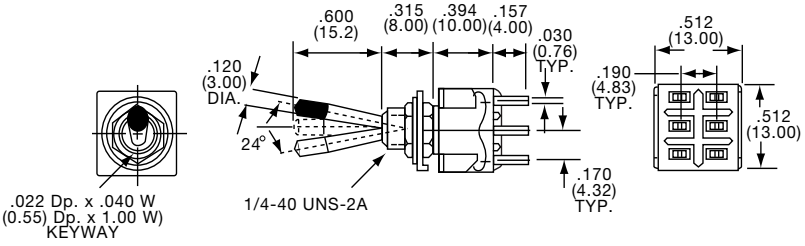
| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | ↘ ⊥ ↙ |
|---|---|---|---|---|
| 6-1437558-3 | MTB106D | SPDT | 1 | On None On |
| 6-1437558-2 | MTB106E | SPDT | 5 | On Off On |

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

(On) indicates momentary position.




### DPDT



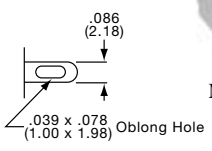



MTB206N

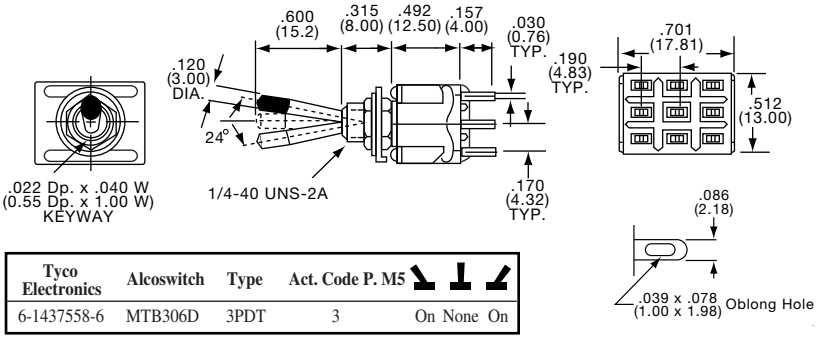
| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | ↘ ⊥ ↙ |
|---|---|---|---|---|
| 6-1437558-4 | MTB206N | DPDT | 2 | On None On |
| 6-1437558-5 | MTB206P | DPDT | 6 | On Off On |

| Alcoswitch | Type | Act. Code P. M5 | ↘ ⊥ ↙ |
|---|---|---|---|
| MTB206T | DPDT | 6 | On Off (On) |

(On) indicates momentary position.




### 3PDT

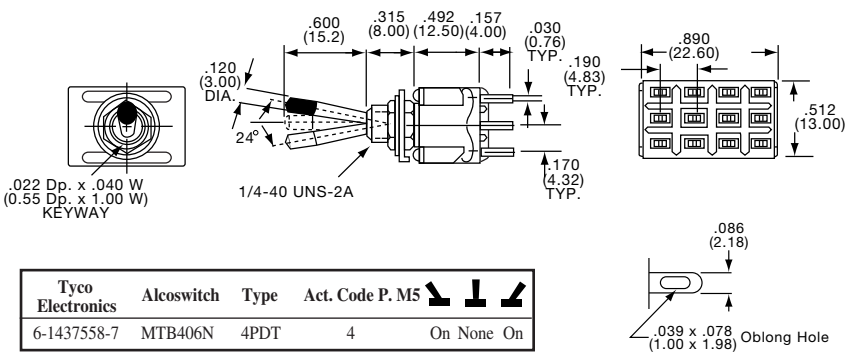





MTB306D

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

### 4PDT






MTB406N

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





Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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

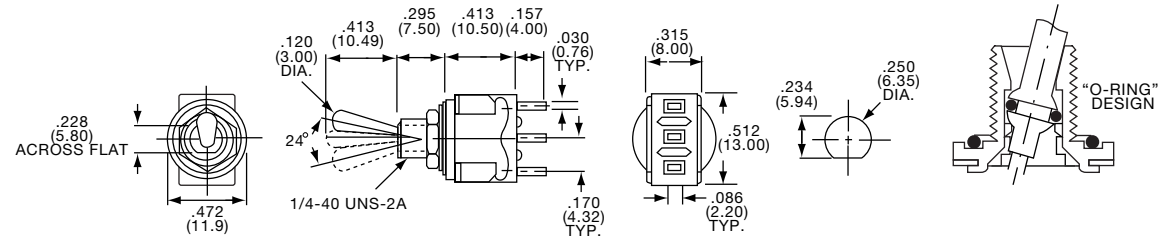
**For terminal connections refer to Code Chart. (See Page M5-6)**

SEE PAGE C43 FOR PRODUCT SPECIFICATIONS

## SPDT



MTE106E



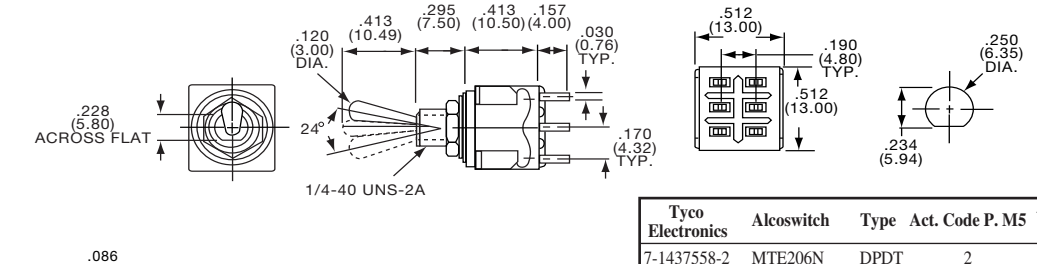

| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | ↘ ⊥ ↙ |
|---|---|---|---|---|
| 6-1437558-8 | MTE106D | SPDT | 1 | On None On |
| 6-1437558-9 | MTE106E | SPDT | 5 | On Off On |
| 7-1437558-0 | MTE106F | SPDT | 1 | On None (On) |
| 7-1437558-1 | MTE106G | SPDT | 5 | (On) Off (On) |
| | MTE106H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

(On) indicates momentary position.

## DPDT/SP3T



MTE206N



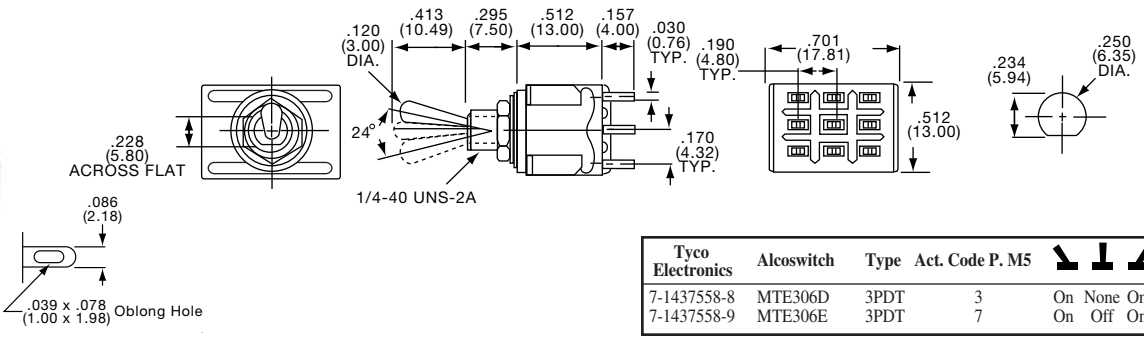

| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | ↘ ⊥ ↙ |
|---|---|---|---|---|
| 7-1437558-2 | MTE206N | DPDT | 2 | On None On |
| 7-1437558-3 | MTE206P | DPDT | 6 | On Off On |
| 7-1437558-5 | MTE206R | DPDT | 2 | On None (On) |
| 7-1437558-6 | MTE206S | DPDT | 6 | (On) Off (On) |
| 7-1437558-7 | 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

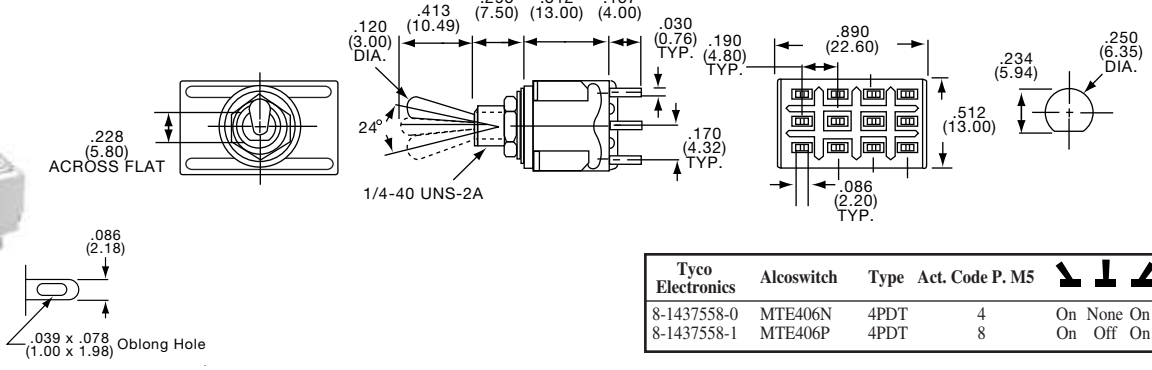



| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | ↘ ⊥ ↙ |
|---|---|---|---|---|
| 7-1437558-8 | MTE306D | 3PDT | 3 | On None On |
| 7-1437558-9 | MTE306E | 3PDT | 7 | On Off On |

## 4PDT



MTE406N




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



Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

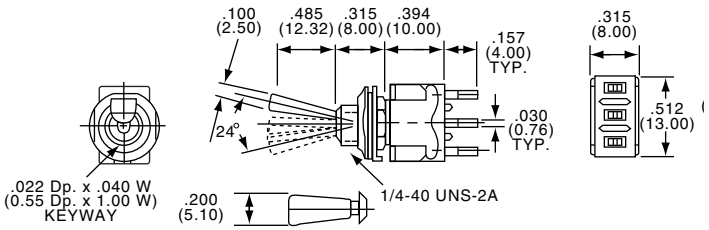
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

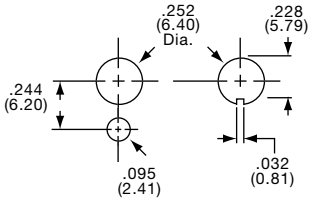
## Toggle Switches, MT Series, Wire Lug, Flat Actuator

SEE PAGE C43 FOR PRODUCT SPECIFICATIONS

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

### SPDT



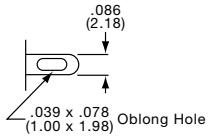




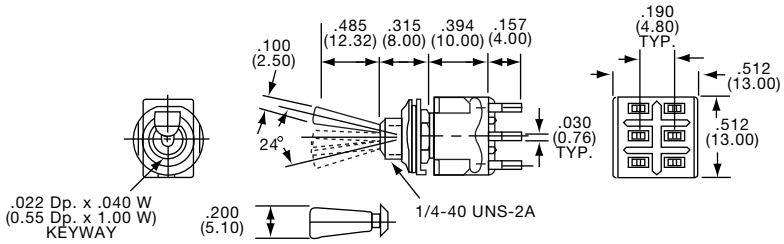
MTF106D

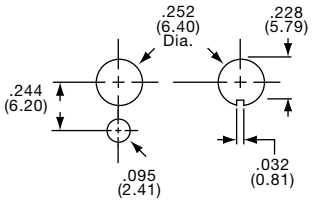
| Satin Chrome Tyco Electronics | Alcoswitch | Bright Chrome Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | |
|---|---|---|---|---|---|---|
| 8-1437558-3 | MTF106D | 8-1437558-8 | MTF126D | SPDT | 1 | On None On |
| 8-1437558-4 | MTF106E | 8-1437558-9 | MTF126E | SPDT | 5 | On Off On |
| 8-1437558-5 | 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



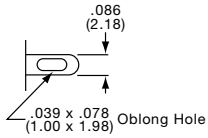




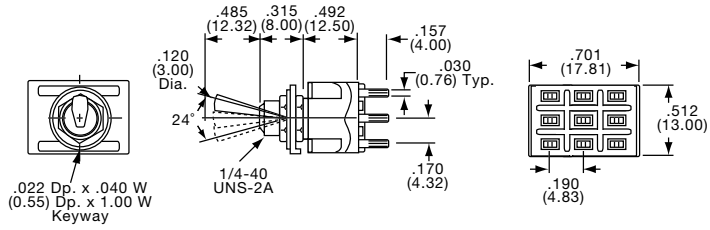
MTF206N

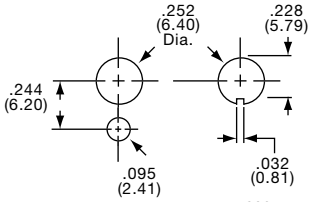
| Satin Chrome Tyco Electronics | Alcoswitch | Bright Chrome Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | |
|---|---|---|---|---|---|---|
| 9-1437558-2 | MTF206N | 9-1437558-9 | MTF226N | DPDT | 2 | On None On |
| 9-1437558-3 | MTF206P | 1437559-1 | MTF226P | DPDT | 6 | On Off On |
| 9-1437558-5 | 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



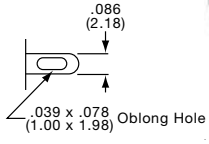





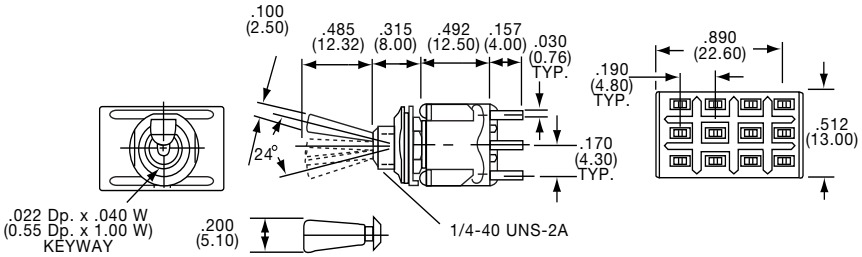


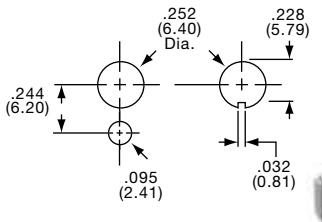
MTF306D

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




### 4PDT



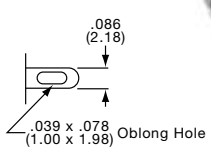







MTF406N

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








Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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

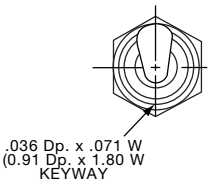
**For terminal connections refer to Code Chart. (See Page M5-6)**

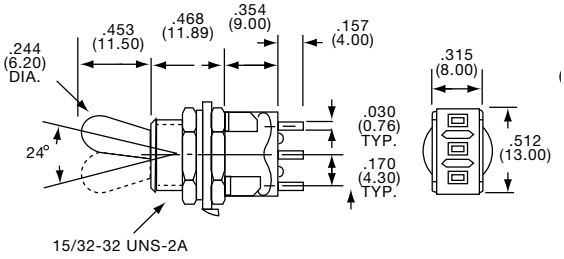
SEE PAGE C43 FOR PRODUCT SPECIFICATIONS

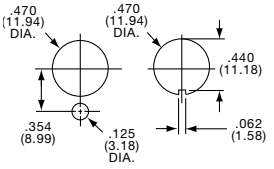
## SPDT

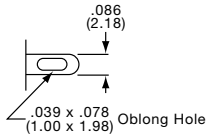


MTG106D



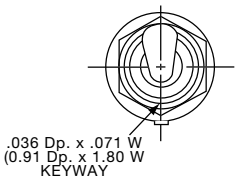

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|---|---|---|---|---|---|---|---|
| 1-1437559-1 | MTG106D | SPDT | 1 | | On | None | On |
| 1-1437559-2 | MTG106E | SPDT | 5 | | On | Off | On |
| 1-1437559-3 | MTG106F | SPDT | 1 | | On | None | (On) |
| 1-1437559-4 | MTG106G | SPDT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

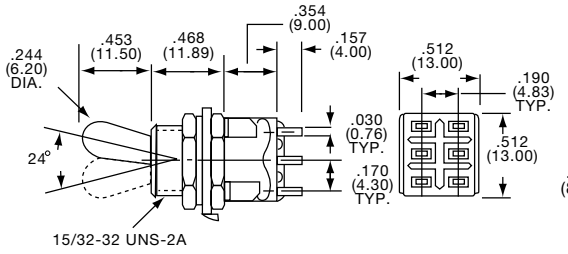
(On) indicates momentary position.

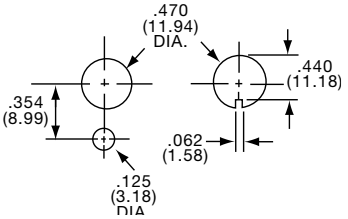
## DPDT/SP3T

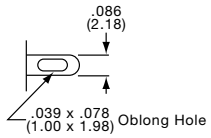


MTG206N




| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|---|---|---|---|---|---|---|---|
| 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.

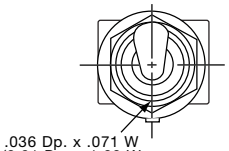
| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|---|---|---|---|---|---|---|---|
| 2-1437559-3 | MTG206S | DPDT | 2 | | (On) | Off | (On) |
| 2-1437559-4 | *MTG206T | DPDT | 6 | | On | Off | (On) |
| 2-1437559-1 | *MTG206PA | SP3T | 11 | | On | On | On |

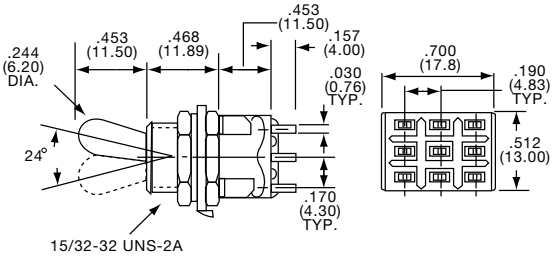
*Note: PA types have case .100/(2.50) longer than other types.

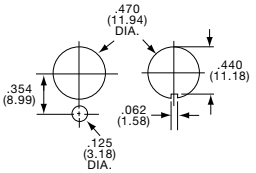
## 3PDT

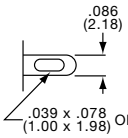


MTG306D



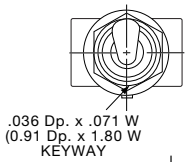



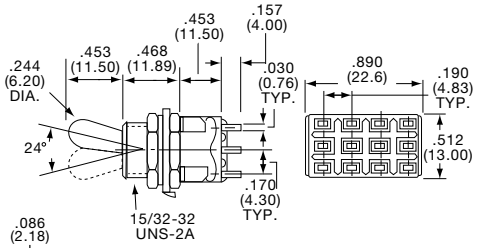

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | |
|---|---|---|---|---|---|---|---|
| 2-1437559-8 | MTG306D | 3PDT | 3 | | On | None | On |
| 2-1437559-9 | MTG306E | 3PDT | 7 | | On | Off | On |

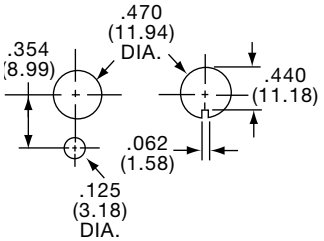
## 4PDT

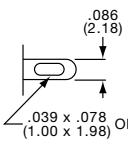


MTG406N




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



Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

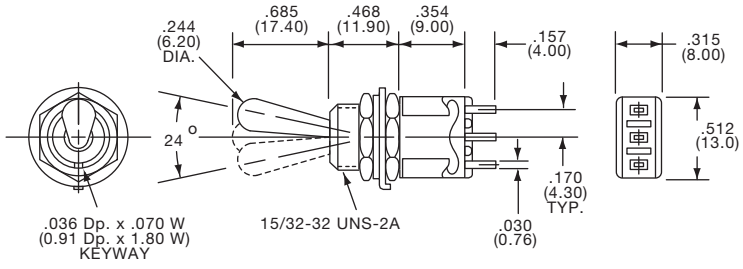
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

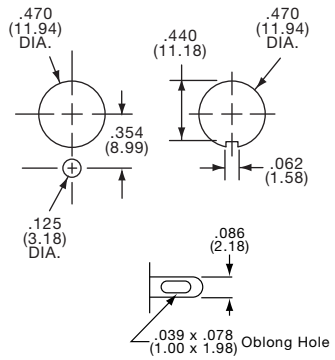
# Toggle Switches, MT Series, Wire Lug, Long Mustang Actuator

SEE PAGE C43 FOR PRODUCT SPECIFICATIONS

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

## SPDT



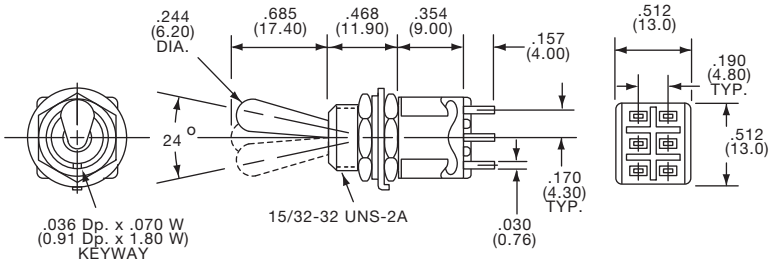



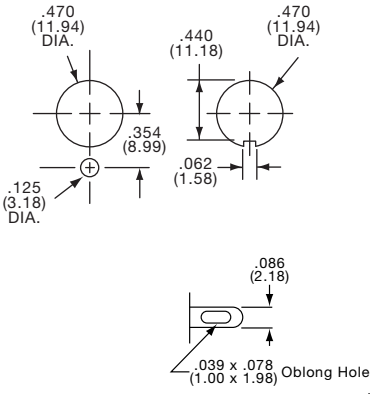



MTG126D

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

## DPDT/SP3T



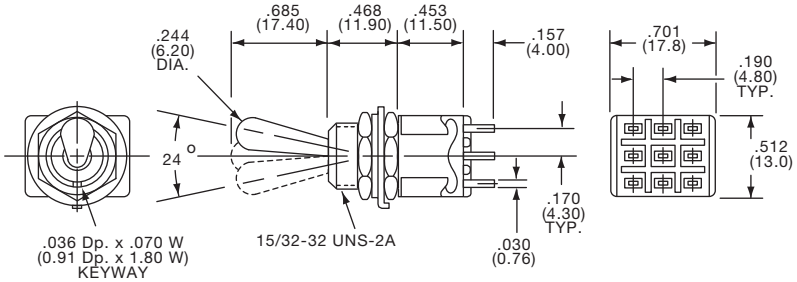


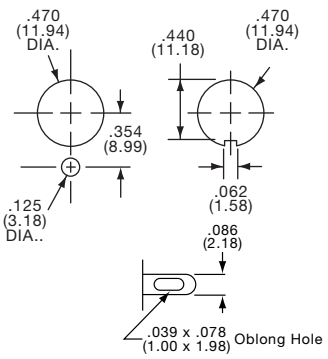

MTG226N

| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | ↘ | ⊥ | ↙ |
|---|---|---|---|---|---|---|
| 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



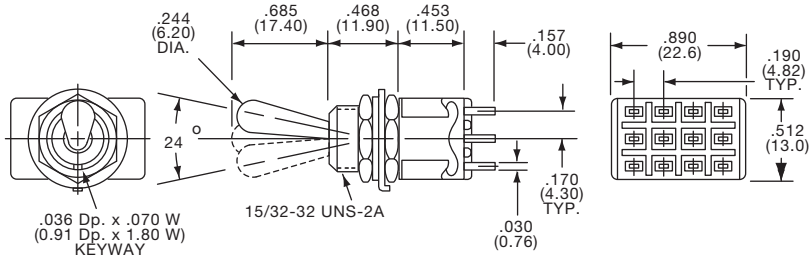



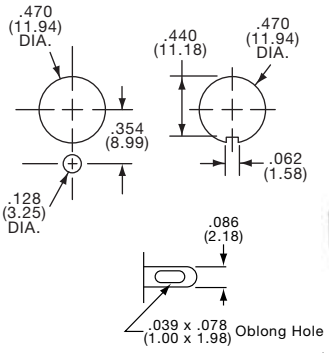



MTG326D

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

## 4PDT






MTG426N

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





Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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

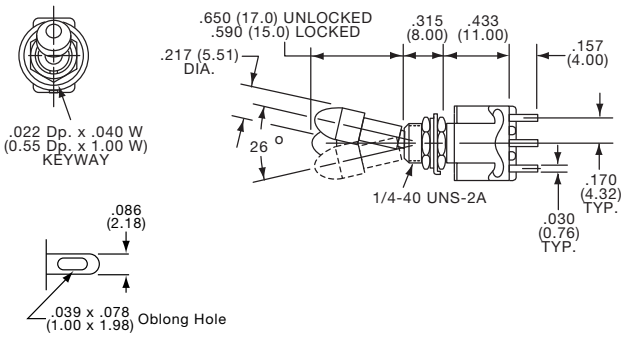
**For terminal connections refer to Code Chart. (See Page M5-6)**

SEE PAGE C43 FOR PRODUCT SPECIFICATIONS

## SPDT



MTL106D

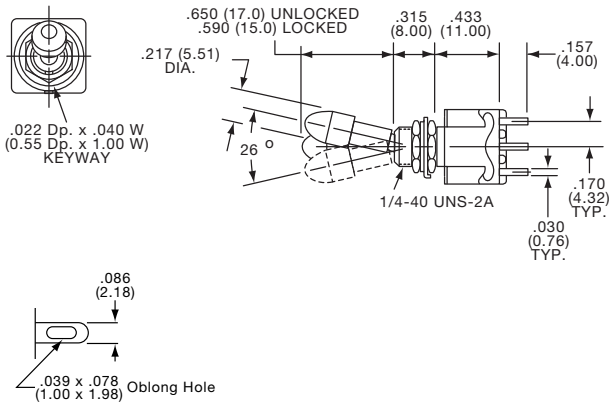



| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | | | |
|---|---|---|---|---|---|---|
| 3-1437559-4 | MTL106D | SPDT | 1 | On | None | On |
| 3-1437559-5 | MTL106E | SPDT | 5 | On | Off | On |

## DPDT/SP3T



MTL206N



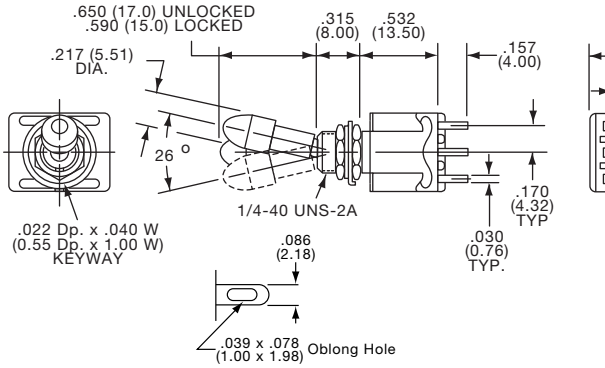

| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | | | |
|---|---|---|---|---|---|---|
| 3-1437559-7 | MTL206N | DPDT | 2 | On | None | On |
| 3-1437559-9 | MTL206P | DPDT | 6 | On | Off | On |
| 4-1437559-1 | MTL206S | DPDT | 6 | (On) | Off | (On) |
| 4-1437559-0 | *MTL206PA | SP3T | 11 | On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

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

## 3PDT



MTL306D

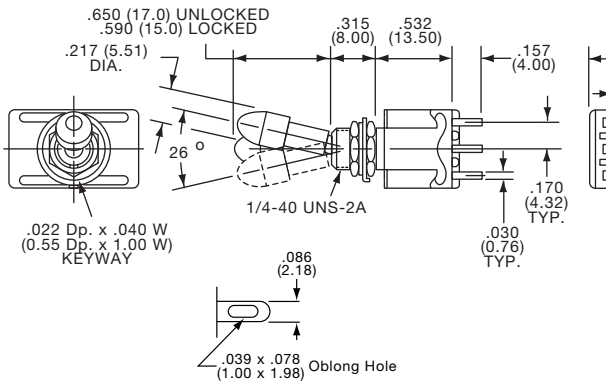



| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | | | |
|---|---|---|---|---|---|---|
| 4-1437559-2 | MTL306D | 3PDT | 3 | On | None | On |

## 4PDT/DP3T



MTL406N




| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | | | |
|---|---|---|---|---|---|---|
| 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.



Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

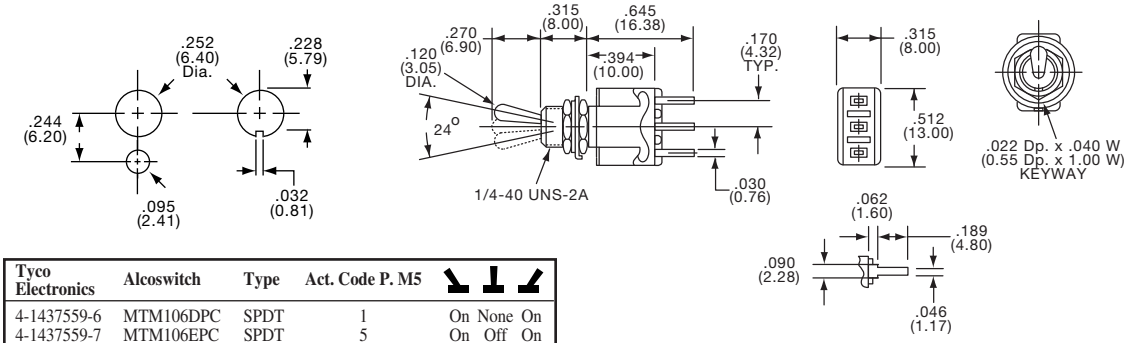
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

# 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



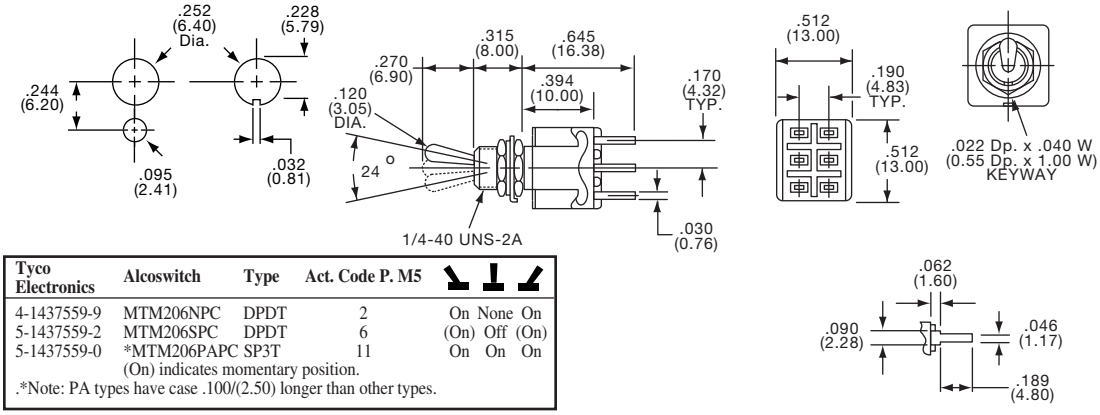



MTM106DPC

| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | ◣ ┻ ◢ |
|---|---|---|---|---|
| 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.

## DPDT/SP3T



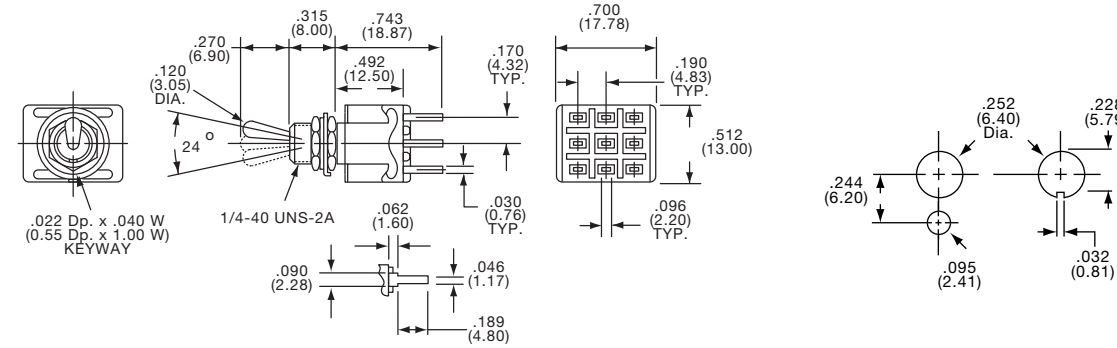



MTM206NPC

| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | ◣ ┻ ◢ |
|---|---|---|---|---|
| 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.

## 3PDT

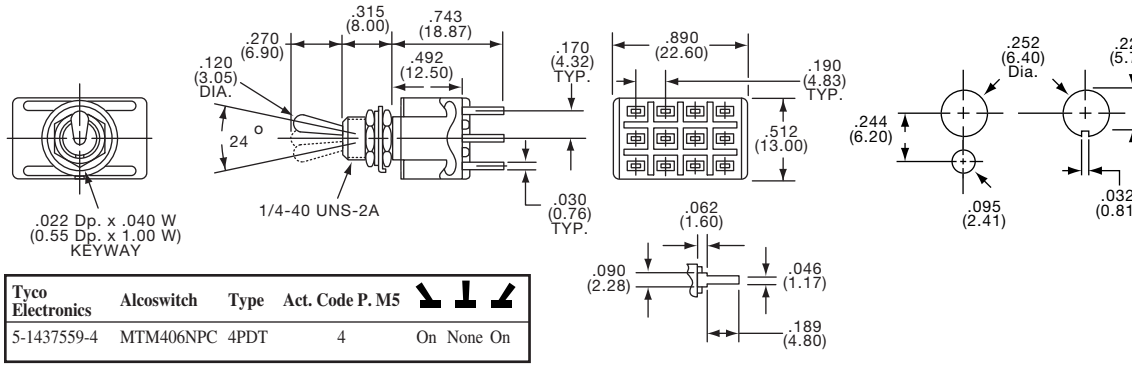





MTM306DPC

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

## 4PDT






MTM406NPC

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





Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

# 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 .....Thermoset 94V-0
Bushings .....RA Termination Nickel Plated Copper Alloy
WW & VRA are zinc alloy
Terminals .....Silver plated copper alloy
Terminal Seal .....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:

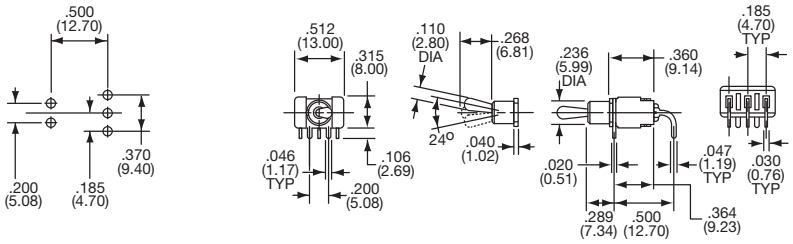
Contact Rating .....RA & VRA 6A @ 125VAC/3A 250VAC
WW is 6A @ 125VAC
Initial Contact Resistance.....20 Milliohms max.
Contact Timing.....Break before make
Insulation Resistance .....1,000 Megohms min. @ 500 VDC min. for 1 minute
Dielectric Strength .....1,000 VAC
Actuation Force .....05-1.5 kg.
Actuator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

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

## SPDT
**Short Toggle**



**Horizontal Actuation**



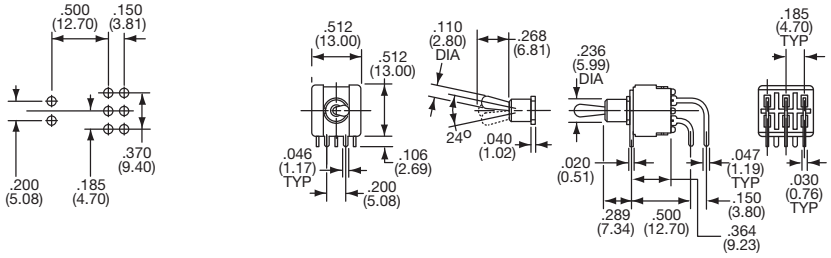

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | | Toggle | Bushing |
|---|---|---|---|---|---|---|---|---|---|
| 5-1437559-6 | MTM8106DRA | SPDT | 1 | | On | None | On | .270 | .250 |
| 5-1437559-8 | MTM8106ERA | SPDT | 5 | | On | Off | On | .270 | .250 |
| 147681-1 | MTM8106FRA | SPDT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

(On) indicates momentary position.

## DPDT
**Short Toggle**



**Horizontal Actuation**



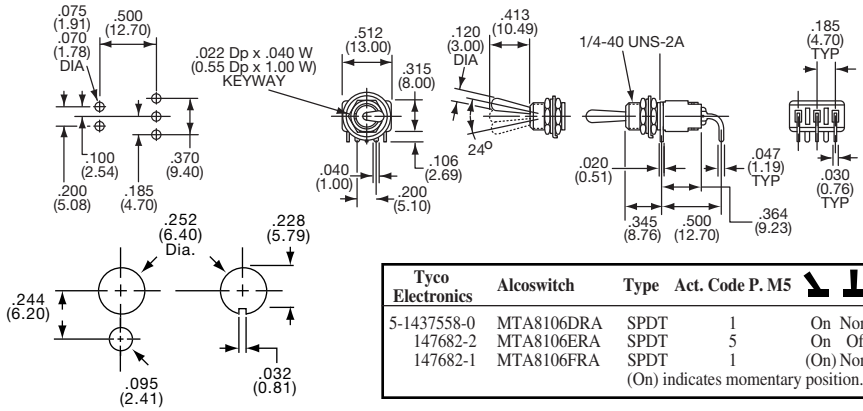

| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | | Toggle | Bushing |
|---|---|---|---|---|---|---|---|---|---|
| 6-1437559-0 | MTM8206NRA | DPDT | 2 | | On | None | On | .270 | .250 |
| 147674-1 | MTM8206PRA | DPDT | 6 | | On | Off | On | .270 | .250 |
| | MTM8206RRA | DPDT | 2 | | (On)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

(On) indicates momentary position.

## 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.



Catalog 1308390
Issued 9-04
www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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

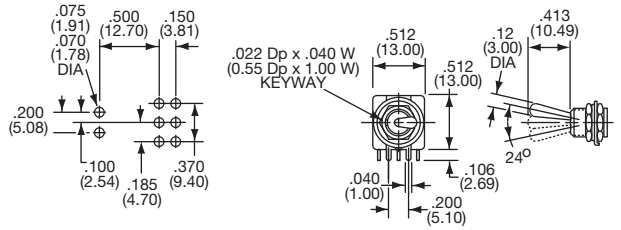
SEE PAGE C52 FOR PRODUCT SPECIFICATIONS

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

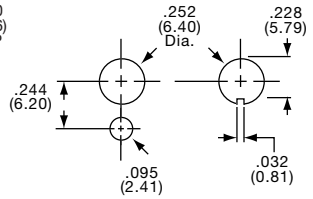
### DPDT

**Standard Toggle**






**Horizontal Actuation**

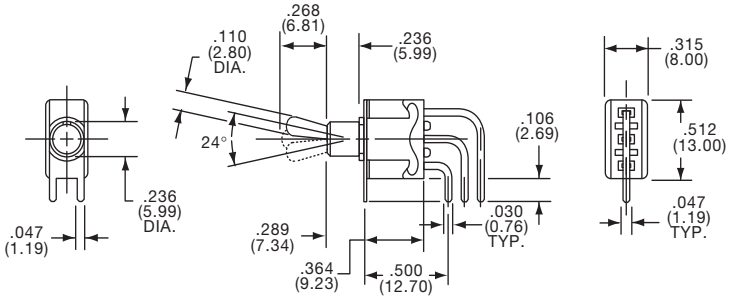



| Tyco Electronics | Alcoswitch | Type | Act. Code | P. M5 | | | | Toggle | Bushing |
|---|---|---|---|---|---|---|---|---|---|
| 5-1437558-6 | MTA8206NRA | DPDT | 2 | | On | None | On | .410 | 1/4-40 |
| 5-1437558-9 | MTA8206PRA | DPDT | 6 | | On | Off | On | .410 | 1/4-40 |
| | MTA8206RRA | DPDT |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

(On) indicates momentary position.

### SPDT



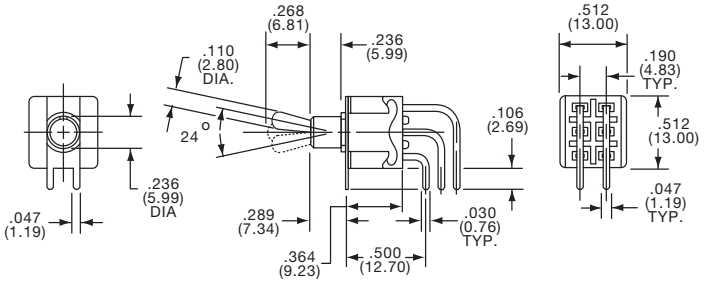



MTM8106DVRA
Vertical Actuation

| 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 |

### DPDT





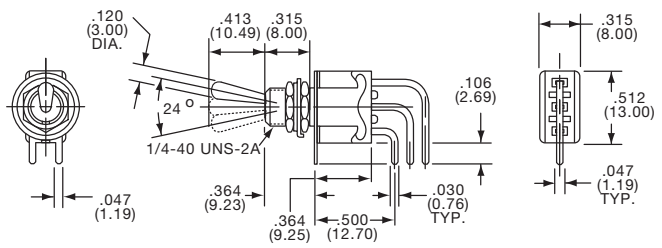

MTM8206NVRA
Vertical Actuation

| 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.

### SPDT






MTA8106DVRA
Vertical Actuation

| 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.





Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

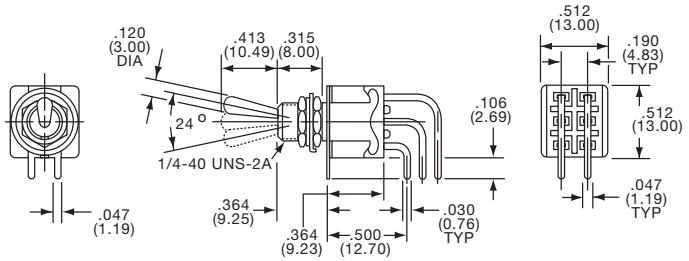
## Toggle Switches, MT Series, Right Angle, Long or Short Bat Actuator

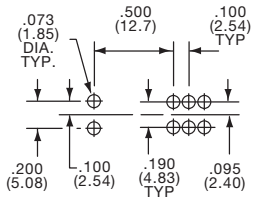
SEE PAGE C52 FOR PRODUCT SPECIFICATIONS

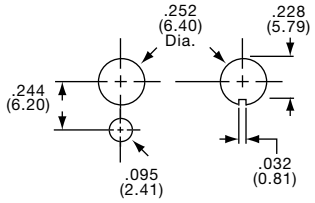
DPDT



MTA8206NVRA
Vertical Actuation



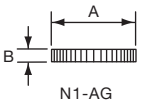




| Tyco Electronics | Alcoswitch | Type | Act. Code P. M5 | | | | Short Toggle | Bushing |
|---|---|---|---|---|---|---|---|---|
| 5-1437558-7 | MTA8206NVRA | DPDT | 1 | On | None | On | .410 | 1/4-40 |
| 6-1437558-0 | MTA8206PVRA | DPST | 5 | On | Off | On | .410 | 1/4-40 |

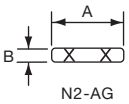
## Toggle Switches, Hardware and Accessories

### STANDARD AND DECORATIVE MOUNTING HARDWARE

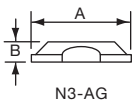
Fits all miniature toggle and pushbutton switches with 1/4-40 bushings. N1 and N3 nuts are recommended as styling options.



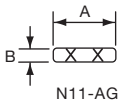
N1-AG



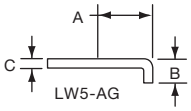
N2-AG



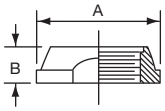
N3-AG



N11-AG



LW5-AG



N35-AG


N1-AG


10264-00-120


N3-AG


11106-AG


N35-AG

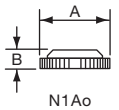

LW5-AG


LW12-AG

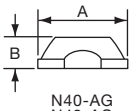
| Tyco Electronics | Alcoswitch | Description | Diameter | Finish | Dim. A | Dim. B | Dim. C |
|---|---|---|---|---|---|---|---|
| 1437628-7 | N1-AG | Knurled Nut | 1/4-40 | Bright Nickel | .350 | .060 | |
| 1437561-9 | 10264-00-120 | Hex Nut | 1/4-40 | Bright Nickel | .312 | .062 | |
| 1-1437628-3 | 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

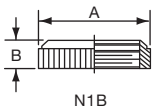
Use blind threaded nuts for ultimate appearance. Finger tighten until nut rests on ridge - Final tightening with back-up nut.



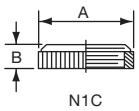
N1Ao



N40-AG
N43-AG
N45-AG



N1B



N1C

| Tyco Electronics | Alcoswitch | Description | Diameter | Finish | Dim. 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 |


N1A


N1B


N1C


N45-AG


N40-AG
N43-AG



Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

# Toggle Switches, Legend Plates, Boot Seals



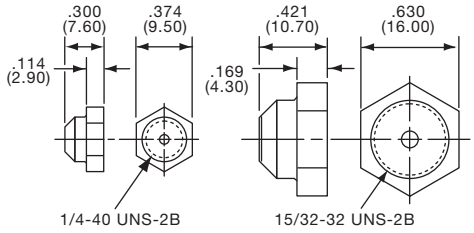
SPA32

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

| Tyco Electronics | Alcoswitch | Description | Dim. A | Dim. 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.



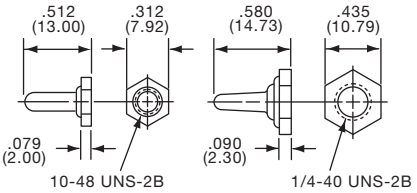
BT1440X BT1532X


BT1440

| 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 |

## 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.



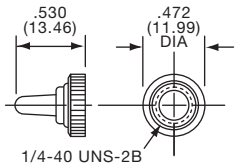


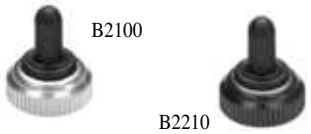
B14400 B10480

| 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 |

## 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.

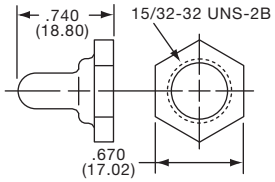




B2100 B2210

| 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 |

## 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.





B15320

| 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 Sereis, Gemini "T", "T1" Options |



Catalog 1308390
Issued 9-04
www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

## Engineering Notes





Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967