

# NT SERIES

005429  
Issue 7

## MICRO SWITCH Commercial-Grade Toggle Switches



### DESCRIPTION

MICRO SWITCH NT Series toggle switches meet the need for a rugged, cost-effective toggle switch. Quality construction features include a seal between the toggle lever and bushing and between the cover and case. These switches are suitable for applications in many demanding outdoor environments, where the panels are subjected to vibration from equipment, temperature extremes, dust, splashing water and/or hose directed water.

They are capable of withstanding exposure to heavy accumulations of early morning dew that may condense on the control panel in cabs of vehicles left outdoors overnight. The NT toggle switches with larger standard metal or plastic levers are well suited for gloved-hand operation.

Available in both step-base and flat-base styles, the NT Series offers three popular styles of termination: 6-32 screws, solder lugs with 3,0 mm [0.12 in] diameter hole, or 6,35 mm [0.25 in] quick connect terminals.

The optional "Easy Start" threaded bushing enables quick alignment of the mounting nut to minimize any cross threading. The panel stand-off with O-ring feature available on some listings eliminates the need for behind-the-panel hardware, provides a uniform panel height and a panel-to-cover seal.

### FEATURES

- Sealed to NEMA 3, 3R, 4, 13 and IP67/IP68 for global use
- Suitable for applications in many demanding outdoor environments, where the panels are subjected to vibration from equipment, temperature extremes, dust, splashing water, and/or hose directed water
- UL recognized, File E12252, Vol. 1, Section 44, CSA certified, UKCA and CE certified for global use
- Spring-loaded actuating mechanism provides excellent tactile feedback
- Optional flat base case design with a quick connect terminal pattern mates to a commercial-type connector for plug-and-play connectivity
- 2- and 3-position, maintained and momentary toggle action
- Delivers high performance in a wide range of temperatures: -40°C to 71°C [-40°F to 160°F]
- Choice of silver alloy or gold-plated contacts
- Optional engineered step-design case provides added space between terminals to prevent shorting
- Optional panel stand-off with O-ring panel seal eliminates behind-the-panel hardware

### DIFFERENTIATION

- NEMA 3, 3R, 4, 13 and IP67/68 environmental sealing for demanding applications
- UL recognized, CSA certified, UKCA and CE certified for global use
- 1-, 2- and 4-pole options to meet a variety of circuitry requirements
- 2- or 3-position maintained and momentary action to meet circuit and actuator requirements
- Optional step-case design provides added space between terminals to prevent shorting

### APPLICATIONS

- Aerial platform lifts
- Platform lifts for trucks
- Industrial equipment
- Railroad locomotives and maintenance equipment
- Construction equipment
- Agricultural machinery
- Syringes (end of travel)

### PORTFOLIO

The MICRO SWITCH NT joins Honeywell's Toggle Switch Series offering a variety of electrical, position and load choices, with options for MIL qualifications, momentary and/or maintained action and poles. To view the entire product portfolio, [click here](#).

**Honeywell**

# MICRO SWITCH COMMERCIAL-GRADE TOGGLE SWITCHES

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**TABLE 1. SPECIFICATIONS**

| CHARACTERISTIC        | PARAMETER                                                             |
|-----------------------|-----------------------------------------------------------------------|
| Description           | Commercial-grade toggle switch (step base and flat base options)      |
| Sealing               | IP67/IP68; NEMA 3, 3R, 4 and 13                                       |
| Operating temperature | -40°C to 71°C [-40°F to 160°F]                                        |
| Actuators             | Standard, locking, special design, tab                                |
| Action                | 2- or 3- position; momentary and maintained                           |
| Mounting              | Bushing 15/32 in (0.47 in) Ø                                          |
| Circuitry             | SPST, SPDT, DPST, DPDT, 4PST, 4PDT                                    |
| Terminations          | Screw, solder, quick connect                                          |
| Contacts              | Silver alloy, gold plated                                             |
| Amp Rating            | Up to 20 A (resistive)                                                |
| Approvals             | UL, CSA, CE, UKCA                                                     |
| Measurement           | 26,7 mm H x 33,5 mm W x 22,6 mm D [1.05 in H x 1.32 in W x 0.89 in D] |

**TABLE 2. UL AND CSA ELECTRICAL RATINGS**

| Rating Code | Electrical Rating                                                                      |
|-------------|----------------------------------------------------------------------------------------|
| <b>L192</b> | 10 amps, 125, 250, 277 Vac; 1/4 Hp, 125 Vac; 1/2 Hp, 250, 277 Vac; 3 amps, 125 Vac “L” |
| <b>L192</b> | 15 amps, 125, 250, 277 Vac; 1/2 Hp, 125 Vac; 1 Hp, 250, 277 Vac; 5 amps, 125 Vac “L”   |

**TABLE 3. ELECTRICAL RATINGS (IN AMPERES)**

| Electrical Rating Code | 28 Vdc |      |      | 115 Vdc | 250 Vdc | 115 Vac, 60 Hz & 400 Hz max. |      |      | 230 Vac |
|------------------------|--------|------|------|---------|---------|------------------------------|------|------|---------|
|                        | Ind.   | Res. | Lamp | Res.    | Res.    | Ind.                         | Res. | Lamp | Res.    |
| <b>1</b>               | 12     | 20   | 5    | 0.75    | 0.5     | 10                           | 15   | 3    | 6       |
| <b>2</b>               | 10     | 15   | 4    | 0.75    | 0.5     | 7                            | 15   | 2    | 6       |
| <b>3</b>               | 15     | 20   | 7    | 0.75    | 0.5     | 15                           | 15   | 4    | 6       |
| <b>4</b>               | 10     | 18   | 5    | 0.75    | 0.5     | 8                            | 11   | 2    | 6       |
| <b>5</b>               | 12     | 20   | 5    | 0.75    | 0.5     | 15                           | 15   | 4    | 6       |
| <b>6</b>               | 10     | 18   | 4    | 0.75    | 0.5     | 8                            | 11   | 2    | 6       |

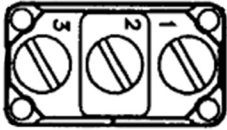
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TERMINAL CIRCUIT IDENTIFICATION

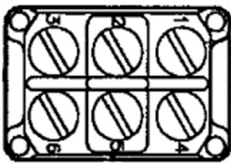
Terminal identifications are referred to in the order guides to indicate which circuits are made in each toggle position (i.e., 1-2 refers to circuit closure through terminals 1 and 2).

NOTE: Keyside is on #3 terminal side.

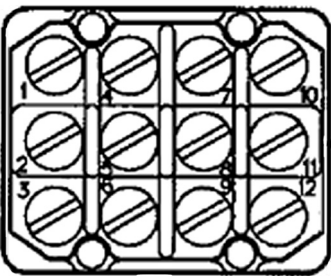
Step Base - One Pole



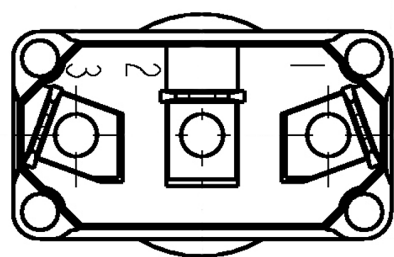
Step Base - Two Pole



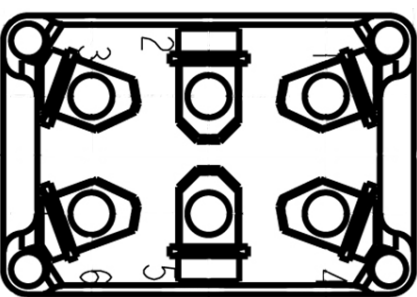
Step Base - Four Pole



Flat Base - One Pole



Flat Base - Two Pole



SPECIAL CIRCUITRIES

Catalog listings with -10, -50 and -70 suffix numbers, as shown in the order guides, have special "on-on-on" circuits, as illustrated below. NTs with -12 suffix are the same as -50 except the keyway position is maintained and the center position circuits 2-3 and 4-5 are made.

-10 CIRCUITRY

| NO OF POLES | KEYWAY SIDE MAINT. POSITION | CENTER MAINT. POSITION | OPPOSITE KEYWAY MAINT. POSITION |
|-------------|-----------------------------|------------------------|---------------------------------|
| 2           |                             |                        |                                 |
| 4           |                             |                        |                                 |

-50 CIRCUITRY

| NO OF POLES | KEYWAY SIDE MAINT. POSITION | CENTER MAINT. POSITION | OPPOSITE KEYWAY MAINT. POSITION |
|-------------|-----------------------------|------------------------|---------------------------------|
| 2           |                             |                        |                                 |
| 4           |                             |                        |                                 |

-70 CIRCUITRY

| NO OF POLES | KEYWAY SIDE MAINT. POSITION | CENTER MAINT. POSITION | OPPOSITE KEYWAY MAINT. POSITION |
|-------------|-----------------------------|------------------------|---------------------------------|
| 2           |                             |                        |                                 |
| 4           |                             |                        |                                 |

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| TABLE 4. NT (STEP BASE) 2-POSITION ORDER GUIDE |                               |                      |                |                    |                                  |         |               |                                                                  |
|------------------------------------------------|-------------------------------|----------------------|----------------|--------------------|----------------------------------|---------|---------------|------------------------------------------------------------------|
| NO. OF POLES                                   | CIRCUITS MADE WITH TOGGLE AT: |                      |                |                    | CATALOG LISTING (STANDARD LEVER) |         |               | PULL-TO-UNLOCK LEVER<br>(ADD SUFFIX TO STANDARD LEVER LISTING)** |
|                                                | KEYWAY POSITION               | OPPOSITE KEYWAY      | UL RATING CODE | ELECT. RATING CODE | SCREW                            | SOLDER  | QUICK CONNECT |                                                                  |
| 1                                              | OFF                           | 2-3                  | L191           | 1                  | 1NT1-2                           | 11NT1-2 | 1NT91-2       | D, F, G                                                          |
|                                                | 1-2                           | 2-3                  | L191           | 1                  | 1NT1-3                           | 11NT1-3 | 1NT91-3       | D, F, G                                                          |
|                                                | OFF*                          | 2-3                  | L192           | 2                  | 1NT1-4                           | 11NT1-4 | 1NT91-4       | F                                                                |
|                                                | 1-2*                          | OFF                  | L192           | 2                  | 1NT1-6                           | 11NT1-6 | 1NT91-6       | F                                                                |
|                                                | 1-2*                          | 2-3                  | L192           | 2                  | 1NT1-8                           | 11NT1-8 | 1NT91-8       | F                                                                |
| 2                                              | OFF                           | 2-3, 5-6             | L191           | 3                  | 2NT1-2                           | 12NT1-2 | 2NT91-2       | D, F, G                                                          |
|                                                | 1-2, 4-5                      | 2-3, 5-6             | L191           | 3                  | 2NT1-3                           | 12NT1-3 | 2NT91-3       | F                                                                |
|                                                | OFF*                          | 2-3, 5-6             | L192           | 4                  | 2NT1-4                           | 12NT1-4 | 2NT91-4       | F                                                                |
|                                                | 1-2, 4-5*                     | OFF                  | L192           | 4                  | 2NT1-6                           | 12NT1-6 | 2NT91-6       | D, F, G                                                          |
|                                                | 1-2, 4-5*                     | 2-3, 5-6             | L192           | 4                  | 2NT1-8                           | 12NT1-8 | 2NT91-8       | F                                                                |
| 4                                              | OFF                           | 2-3, 5-6, 8-9, 11-12 | L191           | 5                  | 4NT1-2                           | 14NT1-2 | 4NT91-2       | D, F, G                                                          |
|                                                | 1-2, 4-5, 7-8, 10-11          | 2-3, 5-6, 8-9, 11-12 | L191           | 5                  | 4NT1-3                           | 14NT1-3 | 4NT91-3       | F                                                                |
|                                                | OFF*                          | 2-3, 5-6, 8-9, 11-12 | L192           | 6                  | 4NT1-4                           | 14NT1-4 | 4NT91-4       | F                                                                |
|                                                | 1-2, 4-5, 7-8, 10-11*         | OFF                  | L192           | 6                  | 4NT1-6                           | 14NT1-6 | 4NT91-6       | D, F, G                                                          |
|                                                | 1-2, 4-5, 7-8, 10-11*         | 2-3, 5-6, 8-9, 11-12 | L192           | 6                  | 4NT1-8                           | 14NT1-8 | 4NT91-8       | F                                                                |

\* These positions are momentary. All others are maintained.

\*\* See page 17 for locking configurations.

| TABLE 5. NT (STEP BASE) 2-POSITION ORDER GUIDE • PANEL STAND-OFF FEATURE |                               |                 |                |                    |                                  |
|--------------------------------------------------------------------------|-------------------------------|-----------------|----------------|--------------------|----------------------------------|
| NO. OF POLES                                                             | CIRCUITS MADE WITH TOGGLE AT: |                 |                |                    | CATALOG LISTING (STANDARD LEVER) |
|                                                                          | KEYWAY POSITION               | OPPOSITE KEYWAY | UL RATING CODE | ELECT. RATING CODE | SCREW TERMINALS                  |
| 1                                                                        | OFF                           | 2-3             | L191           | 1                  | 61NT1-2                          |
|                                                                          | 1-2                           | 2-3             | L191           | 1                  | 61NT1-3                          |
|                                                                          | 1-2*                          | OFF             | L192           | 2                  | 61NT1-6                          |
|                                                                          | 1-2*                          | 2-3             | L192           | 2                  | 61NT1-8                          |
| 2                                                                        | OFF                           | 2-3, 5-6        | L191           | 3                  | 62NT1-2                          |
|                                                                          | 1-2, 4-5                      | 2-3, 5-6        | L191           | 3                  | 62NT1-3                          |
|                                                                          | 1-2, 4-5*                     | OFF             | L192           | 4                  | 62NT1-6                          |
|                                                                          | 1-2, 4-5*                     | 2-3, 5-6        | L192           | 4                  | 62NT1-8                          |

\* These positions are momentary. All others are maintained.

| TABLE 6. NT (STEP BASE) 3-POSITION ORDER GUIDE • PANEL STAND-OFF FEATURE |                               |                 |                 |                |                    |                                  |
|--------------------------------------------------------------------------|-------------------------------|-----------------|-----------------|----------------|--------------------|----------------------------------|
| NO. OF POLES                                                             | CIRCUITS MADE WITH TOGGLE AT: |                 |                 |                |                    | CATALOG LISTING (STANDARD LEVER) |
|                                                                          | KEYWAY POSITION               | CENTER POSITION | OPPOSITE KEYWAY | UL RATING CODE | ELECT. RATING CODE | SCREW TERMINALS                  |
| 1                                                                        | 1-2                           | OFF             | 2-3             | L191           | 1                  | 61NT1-1                          |
|                                                                          | 1-2*                          | OFF             | 2-3*            | L192           | 2                  | 61NT1-7                          |
| 2                                                                        | 1-2, 4-5                      | OFF             | 2-3, 5-6        | L191           | 3                  | 62NT1-1                          |
|                                                                          | 1-2, 4-5*                     | OFF             | 2-3, 5-6*       | L192           | 4                  | 62NT1-7                          |

\*These positions are momentary. All others are maintained.

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| TABLE 7. NT (STEP BASE) 3-POSITION ORDER GUIDE |                               |                      |                       |                |                    |                                  |          |               |                                                                   |
|------------------------------------------------|-------------------------------|----------------------|-----------------------|----------------|--------------------|----------------------------------|----------|---------------|-------------------------------------------------------------------|
| NO. OF POLES                                   | CIRCUITS MADE WITH TOGGLE AT: |                      |                       |                |                    | CATALOG LISTING (STANDARD LEVER) |          |               | PULL-TO-UNLOCK LEVER<br>(ADD SUFFIX TO STANDARD LEVER LISTING)*** |
|                                                | KEYWAY POSITION               | CENTER KEYWAY        | OPPOSITE KEYWAY       | UL RATING CODE | ELECT. RATING CODE | SCREW                            | SOLDER   | QUICK CONNECT |                                                                   |
| 1                                              | 1-2                           | OFF                  | 2-3                   | L191           | 1                  | 1NT1-1                           | 11NT1-1  | 1NT91-1       | ALL TYPES                                                         |
|                                                | 1-2*                          | OFF                  | 2-3                   | L192           | 2                  | 1NT1-5                           | 11NT1-5  | 1NT91-5       | E, F, K, L, M, N                                                  |
|                                                | 1-2*                          | OFF                  | 2-3*                  | L192           | 2                  | 1NT1-7                           | 11NT1-7  | 1NT91-7       | E, L, N                                                           |
|                                                | NONE**                        | OFF                  | 2-3                   | L191           | 1                  | 1NT1-21                          | 11NT1-21 | 1NT91-21      | E, F, K, M                                                        |
|                                                | NONE**                        | 1-2                  | 2-3                   | L191           | 1                  | 1NT1-31                          | 11NT1-31 | 1NT91-31      | E, F, K, M                                                        |
|                                                | NONE**                        | 1-2                  | 2-3*                  | L192           | 2                  | 1NT1-51                          | 11NT1-51 | 1NT91-51      | E                                                                 |
|                                                | 1-2*                          | OFF                  | NONE**                | L192           | 2                  | 1NT1-61                          | 11NT1-61 | 1NT91-61      | E                                                                 |
| 2                                              | 1-2, 4-5                      | OFF                  | 2-3, 5-6              | L191           | 3                  | 2NT1-1                           | 12NT1-1  | 2NT91-1       | ALL TYPES                                                         |
|                                                | 1-2, 4-5*                     | OFF                  | 2-3, 5-6              | L192           | 4                  | 2NT1-5                           | 12NT1-5  | 2NT91-5       | E, F, K, L, M, N                                                  |
|                                                | 1-2, 4-5*                     | OFF                  | 2-3, 5-6*             | L192           | 4                  | 2NT1-7                           | 12NT1-7  | 2NT91-7       | E, L, N                                                           |
|                                                | NONE*                         | OFF                  | 2-3, 5-6              | L191           | 3                  | 2NT1-21                          | 12NT1-21 | 2NT91-21      | E, F, K, M                                                        |
|                                                | NONE**                        | 1-2, 4-5             | 2-3, 5-6              | L191           | 3                  | 2NT1-31                          | 12NT1-31 | 2NT91-31      | E, F, K, M                                                        |
|                                                | NONE**                        | 1-2, 4-5             | 2-3, 5-6*             | L192           | 4                  | 2NT1-51                          | 12NT1-51 | 2NT91-51      | E                                                                 |
|                                                | 1-2, 4-5*                     | OFF                  | NONE**                | L192           | 4                  | 2NT1-61                          | 12NT1-61 | 2NT91-61      | E                                                                 |
|                                                | 1-2, 4-5                      | 2-3, 4-5             | 2-3, 5-6              | L191           | 3                  | 2NT1-12                          | 12NT1-12 | 2NT91-12      | ALL TYPES                                                         |
|                                                | 1-2, 4-5                      | 1-2, 5-6             | 2-3, 5-6              | L191           | 3                  | 2NT1-10                          | 12NT1-10 | 2NT91-10      | ALL TYPES                                                         |
|                                                | 1-2, 4-5*                     | 1-2, 5-6             | 2-3, 5-6              | L192           | 4                  | 2NT1-50                          | 12NT1-50 | 2NT91-50      | E, F, K, L, M, N                                                  |
|                                                | 1-2, 4-5*                     | 1-2, 5-6             | 2-3, 5-6*             | L192           | 4                  | 2NT1-70                          | 12NT1-70 | 2NT91-70      | E, L, N                                                           |
| 4                                              | 1-2, 4-5, 7-8, 10-11          | OFF                  | 2-3, 5-6, 8-9, 11-12  | L191           | 5                  | 4NT1-1                           | 14NT1-1  | 4NT91-1       | ALL TYPES                                                         |
|                                                | 1-2, 4-5, 7-8, 10-11*         | OFF                  | 2-3, 5-6, 8-9, 11-12  | L192           | 6                  | 4NT1-5                           | 14NT1-5  | 4NT91-5       | E, F, K, L, M, N                                                  |
|                                                | 1-2, 4-5, 7-8, 10-11*         | OFF                  | 2-3, 5-6, 8-9, 11-12* | L192           | 6                  | 4NT1-7                           | 14NT1-7  | 4NT91-7       | E, L, N                                                           |
|                                                | NONE*                         | OFF                  | 2-3, 5-6, 8-9, 11-12  | L191           | 5                  | 4NT1-21                          | 14NT1-21 | 4NT91-21      | E, F, K, M                                                        |
|                                                | NONE**                        | 1-2, 4-5, 7-8, 10-11 | 2-3, 5-6, 8-9, 11-12  | L191           | 5                  | 4NT1-31                          | 14NT1-31 | 4NT91-31      | E, F, K, M                                                        |
|                                                | NONE**                        | 1-2, 4-5, 7-8, 10-11 | 2-3, 5-6, 8-9, 11-12* | L192           | 6                  | 4NT1-51                          | 14NT1-51 | 4NT91-51      | E                                                                 |
|                                                | 1-2, 4-5, 7-8, 10-11*         | OFF                  | NONE**                | L192           | 6                  | 4NT1-61                          | 14NT1-61 | 4NT91-61      | E                                                                 |
|                                                | 1-2, 4-5, 7-8, 10-11          | 2-3, 4-5, 7-8, 11-12 | 2-3, 5-6, 8-9, 11-12  | L191           | 5                  | 4NT1-12                          | 14NT1-12 | 4NT91-12      | ALL TYPES                                                         |
|                                                | 1-2, 4-5, 7-8, 10-11          | 2-3, 4-5             | 2-3, 5-6, 8-9, 11-12  | L191           | 5                  | 4NT1-10                          | 14NT1-10 | 4NT91-10      | ALL TYPES                                                         |
|                                                | 1-2, 4-5, 7-8, 10-11*         | 2-3, 4-5, 7-8, 11-12 | 2-3, 5-6, 8-9, 11-12  | L192           | 6                  | 4NT1-50                          | 14NT1-50 | 4NT91-50      | E, F, K, L, M, N                                                  |
|                                                | 1-2, 4-5, 7-8, 10-11*         | 2-3, 4-5             | 2-3, 5-6, 8-9, 11-12* | L192           | 6                  | 4NT1-70                          | 14NT1-70 | 4NT91-70      | E, L, N                                                           |
|                                                | 1-2, 4-5, 7-8, 10-11*         | 2-3, 4-5, 7-8, 11-12 | 2-3, 5-6, 8-9, 11-12* | L192           | 6                  | 4NT1-72                          | –        | –             | E, L, N                                                           |

\* These positions are momentary. All others are maintained.  
\*\* Toggle lever is blocked from these products. Toggle becomes 2-position, with center being one extreme position.  
\*\*\* See page 17 for locking configurations.

# MICRO SWITCH COMMERCIAL-GRADE TOGGLE SWITCHES

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**TABLE 8. NT (FLAT BASE) 2-POSITION ORDER GUIDE**

| NO. OF POLES | CIRCUITS MADE WITH TOGGLE AT: |                 |                |                    | CATALOG LISTING (STANDARD LEVER) |
|--------------|-------------------------------|-----------------|----------------|--------------------|----------------------------------|
|              | KEYWAY POSITION               | OPPOSITE KEYWAY | UL RATING CODE | ELECT. RATING CODE | QUICK CONNECT                    |
| <b>1</b>     | OFF                           | 2-3             | L191           | 1                  | 31NT91-2                         |
|              | 1-2                           | 2-3             | L191           | 1                  | 31NT91-3                         |
|              | OFF**                         | 2-3             | L192           | 2                  | 31NT91-4                         |
|              | 1-2**                         | OFF             | L192           | 2                  | 31NT91-6                         |
|              | 1-2**                         | 2-3             | L192           | 2                  | 31NT91-8                         |
| <b>2</b>     | OFF                           | 2-3, 5-6        | L191           | 3                  | 32NT91-2                         |
|              | 1-2, 4-5                      | 2-3, 5-6        | L191           | 3                  | 32NT91-3                         |
|              | OFF*                          | 2-3, 5-6        | L192           | 4                  | 32NT91-4                         |
|              | 1-2, 4-5**                    | OFF             | L192           | 4                  | 32NT91-6                         |
|              | 1-2, 4-5**                    | 2-3, 5-6        | L192           | 4                  | 32NT91-8                         |

\*\* These positions are momentary. All others are maintained.

**TABLE 9. NT (FLAT BASE) 2-POSITION ORDER GUIDE • PANEL STAND-OFF FEATURE**

| NO. OF POLES | CIRCUITS MADE WITH TOGGLE AT: |                 |                |                    | CATALOG LISTING (STANDARD LEVER) |
|--------------|-------------------------------|-----------------|----------------|--------------------|----------------------------------|
|              | KEYWAY POSITION               | OPPOSITE KEYWAY | UL RATING CODE | ELECT. RATING CODE | QUICK CONNECT                    |
| <b>1</b>     | OFF                           | 2-3             | L191           | 1                  | 631NT91-2                        |
|              | 1-2**                         | 2-3             | L191           | 1                  | 631NT91-3                        |
|              | OFF                           | 2-3             | L192           | 2                  | 631NT91-4                        |
|              | 1-2**                         | OFF             | L192           | 2                  | 631NT91-6                        |
|              | 1-2**                         | 2-3             | L192           | 2                  | 631NT91-8                        |
| <b>2</b>     | OFF                           | 2-3, 5-6        | L191           | 3                  | 632NT91-2                        |
|              | 1-2, 4-5                      | 2-3, 5-6        | L191           | 3                  | 632NT91-3                        |
|              | OFF**                         | 2-3, 5-6        | L192           | 4                  | 632NT91-4                        |
|              | 1-2, 4-5**                    | OFF             | L192           | 4                  | 632NT91-6                        |
|              | 1-2, 4-5**                    | 2-3, 5-6        | L192           | 4                  | 632NT91-8                        |

\*\* These positions are momentary. All others are maintained.

**TABLE 10. NT (FLAT BASE) Z-POSITION ORDER GUIDE • PANEL STAND-OFF FEATURE**

| NO. OF POLES      | KEYWAY POSITION                                         |
|-------------------|---------------------------------------------------------|
| <b>19PA168-NT</b> | 2-pole connector                                        |
| <b>19PA169-NT</b> | 1-pole connector, same package size as 2-pole connector |

# MICRO SWITCH COMMERCIAL-GRADE TOGGLE SWITCHES

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**TABLE 11. NT (FLAT BASE) 3-POSITION ORDER GUIDE**

| CIRCUITS MADE WITH TOGGLE AT: |                 |                 |                 |                |                    | CATALOG LISTING (STANDARD LEVER) |
|-------------------------------|-----------------|-----------------|-----------------|----------------|--------------------|----------------------------------|
| NO. OF POLES                  | KEYWAY POSITION | CENTER POSITION | OPPOSITE KEYWAY | UL RATING CODE | ELECT. RATING CODE | QUICK CONNECT                    |
| <b>1</b>                      | 1-2             | OFF             | 2-3             | L191           | 1                  | 31NT91-1                         |
|                               | 1-2**           | OFF             | 2-3             | L192           | 2                  | 31NT91-5                         |
|                               | 1-2**           | OFF             | 2-3**           | L192           | 2                  | 31NT91-7                         |
|                               | NONE***         | OFF             | 2-3             | L191           | 1                  | 31NT91-21                        |
|                               | NONE***         | 1-2             | 2-3             | L191           | 1                  | 31NT91-31                        |
|                               | NONE***         | 1-2             | 2-3**           | L192           | 2                  | 31NT91-51                        |
|                               | 1-2**           | OFF             | NONE***         | L192           | 2                  | 31NT91-61                        |
| <b>2</b>                      | 1-2, 4-5        | OFF             | 2-3, 5-6        | L191           | 3                  | 32NT91-1                         |
|                               | 1-2, 4-5**      | OFF             | 2-3, 5-6        | L192           | 4                  | 32NT91-5                         |
|                               | 1-2, 4-5**      | OFF             | 2-3, 5-6**      | L192           | 4                  | 32NT91-7                         |
|                               | NONE***         | OFF             | 2-3, 5-6        | L191           | 3                  | 32NT91-21                        |
|                               | NONE***         | 1-2, 4-5        | 2-3, 5-6        | L191           | 3                  | 32NT91-31                        |
|                               | NONE***         | 1-2, 4-5        | 2-3, 5-6**      | L192           | 4                  | 32NT91-51                        |
|                               | 1-2, 4-5**      | OFF             | NONE***         | L192           | 4                  | 32NT91-61                        |
|                               | 1-2, 4-5        | 2-3, 5-6        | 2-3, 5-6        | L191           | 3                  | 32NT91-12                        |
|                               | 1-2, 4-5        | 1-2, 5-6        | 2-3, 5-6        | L191           | 3                  | 32NT91-10                        |
|                               | 1-2, 4-5**      | 1-2, 5-6        | 2-3, 5-6        | L192           | 4                  | 32NT91-50                        |
|                               | 1-2, 4-5**      | 1-2, 5-6        | 2-3, 5-6**      | L192           | 4                  | 32NT91-70                        |

\*\* These positions are momentary. All others are maintained.

\*\*\* Toggle lever is blocked from these positions. Toggle becomes 2-position, with center being one extreme position.

**TABLE 12. NT (FLAT BASE) 3-POSITION ORDER GUIDE • PANEL STAND-OFF FEATURE**

| CIRCUITS MADE WITH TOGGLE AT: |                 |                 |                 |                |                    | CATALOG LISTING (STANDARD LEVER) |
|-------------------------------|-----------------|-----------------|-----------------|----------------|--------------------|----------------------------------|
| NO. OF POLES                  | KEYWAY POSITION | CENTER POSITION | OPPOSITE KEYWAY | UL RATING CODE | ELECT. RATING CODE | QUICK CONNECT                    |
| <b>1</b>                      | 1-2**           | OFF             | 2-3**           | L192           | 2                  | 631NT91-7                        |
|                               | 1-2             | OFF             | 2-3             | L191           | 1                  | 631NT91-1                        |
|                               | 1-2**           | OFF             | 2-3             | L191           | 2                  | 631NT91-5                        |
| <b>2</b>                      | 1-2, 4-5        | OFF             | 2-3, 5-6        | L191           | 3                  | 632NT91-1                        |
|                               | 1-2, 4-5**      | OFF             | 2-3, 5-6        | L192           | 4                  | 632NT91-5                        |
|                               | 1-2, 4-5**      | OFF             | 2-3, 5-6**      | L192           | 4                  | 632NT91-7                        |
|                               | 1-2, 4-5**      | 1-2, 5-6        | 2-3, 5-6**      | L192           | 4                  | 632NT91-70                       |

\*\* These positions are momentary. All others are maintained.

# MICRO SWITCH COMMERCIAL-GRADE TOGGLE SWITCHES

## NT SERIES

### STEP BASE • STANDARD ACTUATOR OPTIONS, TERMINALS, & DIMENSIONS

NOTE: Three-position switches shown.

| 1NT1: SINGLE POLE,<br>STANDARD LEVER,<br>SCREW TERMINALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1NT91: SINGLE POLE,<br>STANDARD LEVER,<br>QUICK-CONNECT TERMINALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11NT1: SINGLE POLE,<br>STANDARD LEVER,<br>SOLDER TERMINALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1.93 mm <math>\pm</math>0.20 mm wide keyway<br/>[0.076 in <math>\pm</math>0.008 wide keyway]</p> <p>10.9 mm<br/>[0.43 in]</p> <p>15° 30' <math>\pm</math>3° 30'</p> <p>31° <math>\pm</math>7° total travel</p> <p>Ø 6.09 mm [Ø 0.24 in]</p> <p>17.0 mm [0.67 in]</p> <p>11.9 mm [0.47 in]</p> <p>6.1 mm [0.24 in]</p> <p>15/32 - 32 UNS 2A thread to within 1.52 mm [0.060 in] of shoulder</p> <p>23.1 mm [0.91 in]</p> <p>29.5 mm [1.16 in]</p> <p>Sealed to prevent entrance of liquids or dust</p> <p>28.4 mm [1.12 in]</p> <p>4.8 mm [0.19 in]</p> <p>19.05 mm [0.75 in]</p> <p>9.7 mm [0.38 in]</p> <p>15.7 mm [0.62 in]</p> <p>3X 6-32 UNC-2A X (0.260) binding head terminal screw and lockwasher (sems)</p> | <p>1.93 mm <math>\pm</math>0.20 mm wide keyway<br/>[0.076 in <math>\pm</math>0.008 wide keyway]</p> <p>10.9 mm<br/>[0.43 in]</p> <p>15° 30' <math>\pm</math>3° 30'</p> <p>31° <math>\pm</math>7° total travel</p> <p>Ø 6.09 mm [Ø 0.24 in]</p> <p>17.0 mm [0.67 in]</p> <p>11.9 mm [0.47 in]</p> <p>6.1 mm [0.24 in]</p> <p>15/32 - 32 UNS 2A thread to within 1.52 mm [0.060 in] of shoulder</p> <p>23.1 mm [0.91 in]</p> <p>41.99 mm <math>\pm</math>0.76 mm [1.653 in <math>\pm</math>0.030 in]</p> <p>10.9 mm [0.43 in]</p> <p>3X 0.250 in QC terminal</p> <p>Sealed to prevent entrance of liquids or dust</p> <p>28.4 mm [1.12 in]</p> <p>4.8 mm [0.19 in]</p> <p>19.05 mm [0.75 in]</p> <p>9.7 mm [0.38 in]</p> <p>15.7 mm [0.62 in]</p> | <p>1.93 mm <math>\pm</math>0.20 mm wide keyway<br/>[0.076 in <math>\pm</math>0.008 wide keyway]</p> <p>10.9 mm<br/>[0.43 in]</p> <p>15° 30' <math>\pm</math>3° 30'</p> <p>31° <math>\pm</math>7° total travel</p> <p>Ø 6.09 mm [Ø 0.24 in]</p> <p>17.0 mm [0.67 in]</p> <p>11.9 mm [0.47 in]</p> <p>6.1 mm [0.24 in]</p> <p>15/32 - 32 UNS 2A thread to within 1.52 mm [0.060 in] of shoulder</p> <p>23.1 mm [0.91 in]</p> <p>29.5 mm [1.16 in]</p> <p>Sealed to prevent entrance of liquids or dust</p> <p>28.4 mm [1.12 in]</p> <p>4.8 mm [0.19 in]</p> <p>19.05 mm [0.75 in]</p> <p>9.7 mm [0.38 in]</p> <p>15.7 mm [0.62 in]</p> <p>3X 8.51 mm <math>\pm</math>0.38 mm [3X Ø 0.335 in <math>\pm</math>0.015 in]</p> <p>3X Ø 5.33 mm <math>\pm</math>0.64 mm [3X Ø 0.210 in <math>\pm</math>0.025 in]</p> |
| LOCKING LEVER DIMENSIONS FOR<br>SINGLE POLE NT TOGGLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>31° <math>\pm</math>7° total travel</p> <p>15° <math>\pm</math>3°</p> <p>Ø 10.67 mm [Ø 0.42 in]</p> <p>2.28 mm [0.090 in] approx. pullout to change position</p> <p>26.67 mm [1.05 in]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

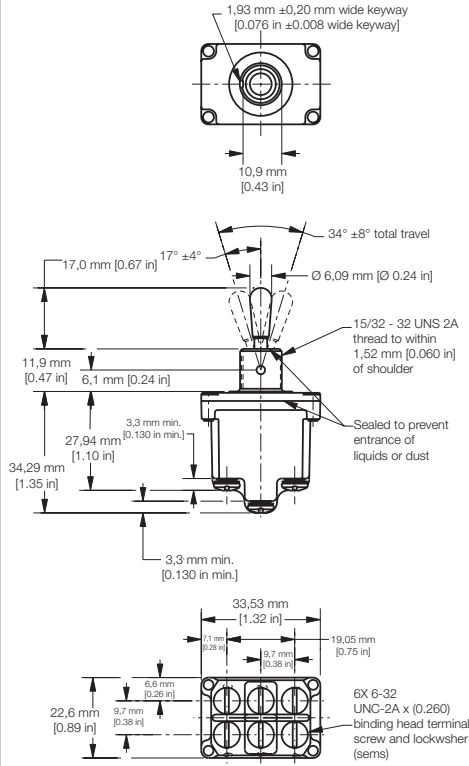
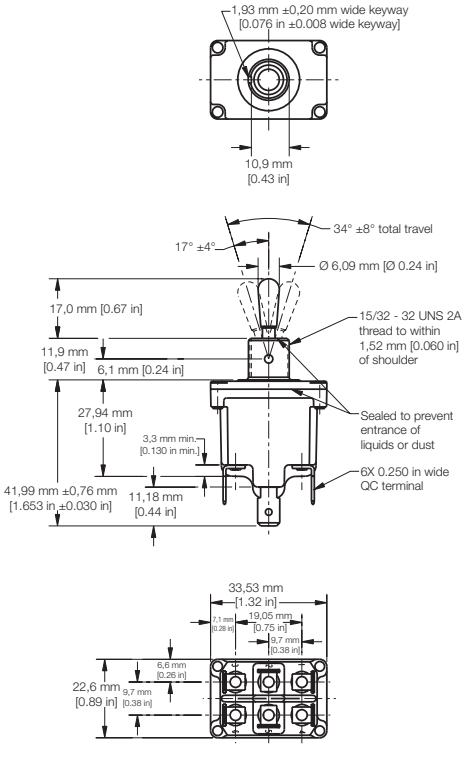
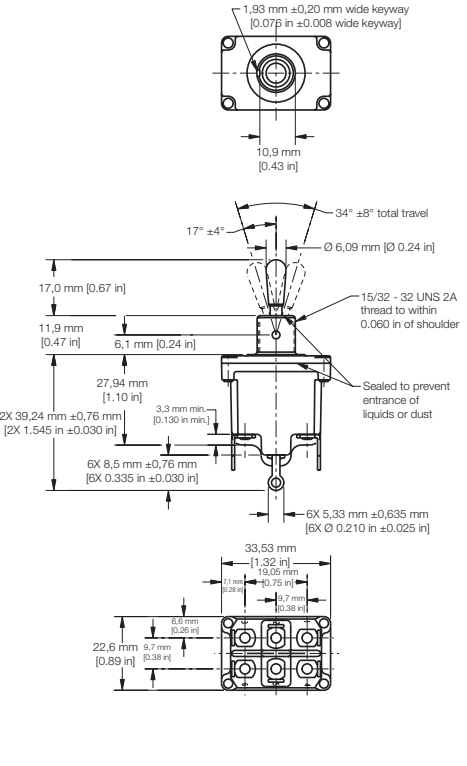


# MICRO SWITCH COMMERCIAL-GRADE TOGGLE SWITCHES

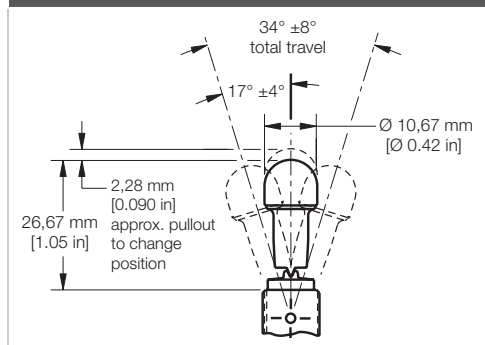
## NT SERIES

### STEP BASE • STANDARD ACTUATOR OPTIONS, TERMINALS, & DIMENSIONS

NOTE: Three-position switches shown.

| 2NT1: DOUBLE POLE,<br>STANDARD LEVER,<br>SCREW TERMINALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2NT91: DOUBLE POLE,<br>STANDARD LEVER,<br>QUICK-CONNECT TERMINALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12NT1: DOUBLE POLE,<br>STANDARD LEVER,<br>SOLDER TERMINALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>1.93 mm <math>\pm 0.20</math> mm wide keyway<br/>[0.076 in <math>\pm 0.008</math> wide keyway]</p> <p>10.9 mm<br/>[0.43 in]</p> <p>34° <math>\pm 8^\circ</math> total travel</p> <p>17° <math>\pm 4^\circ</math></p> <p>17.0 mm [0.67 in]</p> <p>11.9 mm [0.47 in]</p> <p>6.1 mm [0.24 in]</p> <p>15/32 - 32 UNS 2A thread to within 1.52 mm [0.060 in] of shoulder</p> <p>3.3 mm min. [0.130 in min.]</p> <p>27.94 mm [1.10 in]</p> <p>34.29 mm [1.35 in]</p> <p>Sealed to prevent entrance of liquids or dust</p> <p>3.3 mm min. [0.130 in min.]</p> <p>33.53 mm [1.32 in]</p> <p>19.05 mm [0.75 in]</p> <p>6.1 mm [0.24 in]</p> <p>9.7 mm [0.38 in]</p> <p>6.6 mm [0.26 in]</p> <p>22.6 mm [0.89 in]</p> <p>6X 6-32 UNC-2A x (0.260) binding head terminal screw and lockwasher (sems)</p> |  <p>1.93 mm <math>\pm 0.20</math> mm wide keyway<br/>[0.076 in <math>\pm 0.008</math> wide keyway]</p> <p>10.9 mm<br/>[0.43 in]</p> <p>34° <math>\pm 8^\circ</math> total travel</p> <p>17° <math>\pm 4^\circ</math></p> <p>17.0 mm [0.67 in]</p> <p>11.9 mm [0.47 in]</p> <p>6.1 mm [0.24 in]</p> <p>15/32 - 32 UNS 2A thread to within 1.52 mm [0.060 in] of shoulder</p> <p>3.3 mm min. [0.130 in min.]</p> <p>27.94 mm [1.10 in]</p> <p>41.99 mm <math>\pm 0.76</math> mm [1.653 in <math>\pm 0.030</math> in]</p> <p>11.18 mm [0.44 in]</p> <p>Sealed to prevent entrance of liquids or dust</p> <p>6X 0.250 in wide QC terminal</p> <p>33.53 mm [1.32 in]</p> <p>19.05 mm [0.75 in]</p> <p>6.1 mm [0.24 in]</p> <p>9.7 mm [0.38 in]</p> <p>6.6 mm [0.26 in]</p> <p>22.6 mm [0.89 in]</p> |  <p>1.93 mm <math>\pm 0.20</math> mm wide keyway<br/>[0.076 in <math>\pm 0.008</math> wide keyway]</p> <p>10.9 mm<br/>[0.43 in]</p> <p>34° <math>\pm 8^\circ</math> total travel</p> <p>17° <math>\pm 4^\circ</math></p> <p>17.0 mm [0.67 in]</p> <p>11.9 mm [0.47 in]</p> <p>6.1 mm [0.24 in]</p> <p>15/32 - 32 UNS 2A thread to within 0.060 in of shoulder</p> <p>3.3 mm min. [0.130 in min.]</p> <p>27.94 mm [1.10 in]</p> <p>2X 39.24 mm <math>\pm 0.76</math> mm [2X 1.545 in <math>\pm 0.030</math> in]</p> <p>6X 8.5 mm <math>\pm 0.76</math> mm [6X 0.335 in <math>\pm 0.030</math> in]</p> <p>Sealed to prevent entrance of liquids or dust</p> <p>6X 5.33 mm <math>\pm 0.635</math> mm [6X 0.210 in <math>\pm 0.025</math> in]</p> <p>33.53 mm [1.32 in]</p> <p>19.05 mm [0.75 in]</p> <p>6.1 mm [0.24 in]</p> <p>9.7 mm [0.38 in]</p> <p>6.6 mm [0.26 in]</p> <p>22.6 mm [0.89 in]</p> |

### LOCKING LEVER DIMENSIONS FOR DOUBLE POLE NT TOGGLES



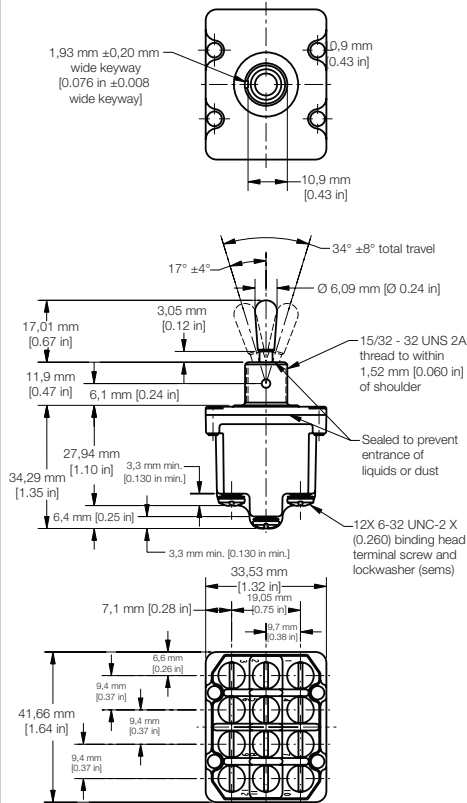
# MICRO SWITCH COMMERCIAL-GRADE TOGGLE SWITCHES

## NT SERIES

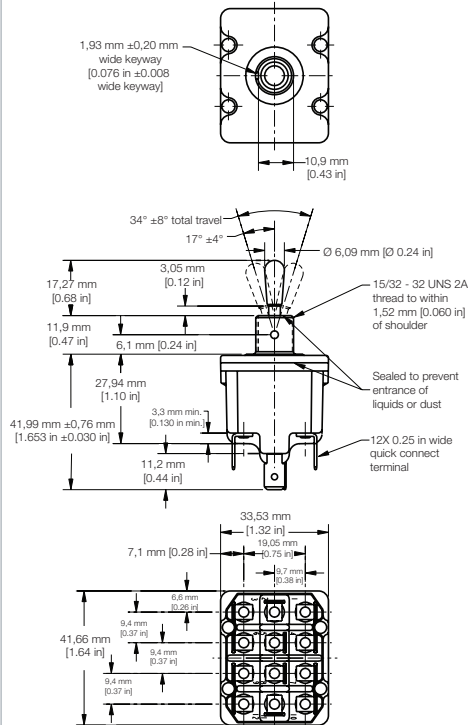
### STEP BASE • STANDARD ACTUATOR OPTIONS, TERMINALS, & DIMENSIONS

NOTE: Three-position switches shown.

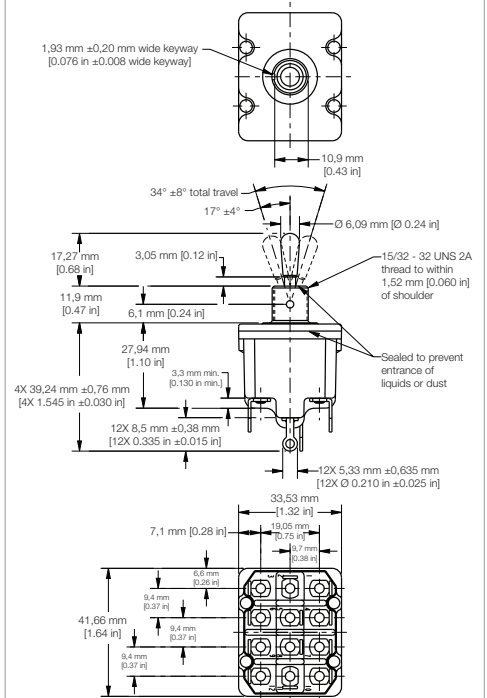
#### 4NT1: FOUR-POLE, STANDARD LEVER, SCREW TERMINALS



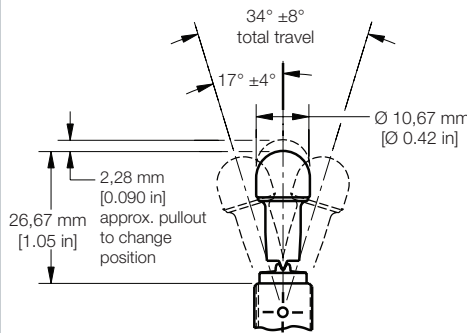
#### 4NT91: FOUR-POLE, STANDARD LEVER, QUICK-CONNECT TERMINALS



#### 14NT1: FOUR-POLE, STANDARD LEVER, SOLDER TERMINALS



#### LOCKING LEVER DIMENSIONS FOR FOUR-POLE NT TOGGLES



MICRO SWITCH COMMERCIAL-GRADE TOGGLE SWITCHES  
NT SERIES

STEP BASE • STANDARD ACTUATOR OPTIONS, TERMINALS, & DIMENSIONS

NOTE: Three-position switches shown.

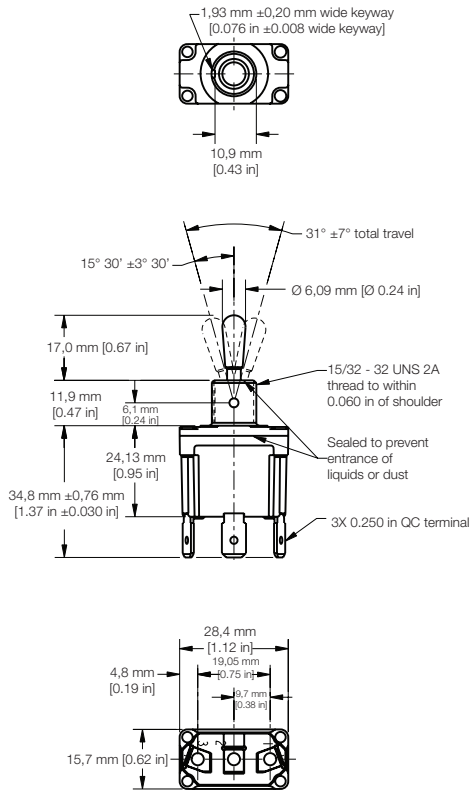
| 61NT1: SINGLE POLE,<br>STANDARD LEVER,<br>PANEL STANDOFF, SCREW TERMINALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 62NT1: DOUBLE POLE,<br>STANDARD LEVER,<br>PANEL STANDOFF, SCREW TERMINALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1.93 mm <math>\pm</math>0.20 mm wide keyway<br/>[0.076 in <math>\pm</math>0.008 wide keyway]</p> <p>10.9 mm<br/>[0.43 in]</p> <p>31° <math>\pm</math>7° total travel</p> <p>15° 30' <math>\pm</math>3° 30'</p> <p>Panel seal</p> <p>17.0 mm [0.67 in]</p> <p>12.45 mm [0.49 in]</p> <p>7.4 mm [0.29 in]</p> <p>15/32 - 32 UNS 2A thread to within 0.060 in of shoulder</p> <p>23.1 mm [0.91 in]</p> <p>29.5 mm [1.16 in]</p> <p>Sealed to prevent entrance of liquids or dust</p> <p>28.4 mm [1.12 in]</p> <p>4.8 mm [0.19 in]</p> <p>19.05 mm [0.75 in]</p> <p>9.7 mm [0.38 in]</p> <p>3X 6-32 UNC-2A X (0.260) binding head terminal screw and lockwasher (sems)</p> <p>15.7 mm [0.62 in]</p> | <p>1.93 mm <math>\pm</math>0.20 mm wide keyway<br/>[0.076 in <math>\pm</math>0.008 wide keyway]</p> <p>10.9 mm<br/>[0.43 in]</p> <p>34° <math>\pm</math>8° total travel</p> <p>17° <math>\pm</math>4°</p> <p>Panel seal</p> <p>17.0 mm [0.67 in]</p> <p>12.45 mm [0.49 in]</p> <p>7.4 mm [0.29 in]</p> <p>15/32 - 32 UNS 2A thread to within 0.060 in of shoulder</p> <p>27.94 mm [1.10 in]</p> <p>3.3 mm min. [0.130 in min.]</p> <p>34.29 mm [1.35 in]</p> <p>3.3 mm min. [0.130 in min.]</p> <p>Sealed to prevent entrance of liquids or dust</p> <p>33.53 mm [1.32 in]</p> <p>7.1 mm [0.28 in]</p> <p>19.05 mm [0.75 in]</p> <p>9.7 mm [0.38 in]</p> <p>6.6 mm [0.26 in]</p> <p>22.6 mm [0.89 in]</p> <p>6X 6-32 UNC-2A x (0.260) binding head terminal screw and lockwasher (sems)</p> |

# MICRO SWITCH COMMERCIAL-GRADE TOGGLE SWITCHES NT SERIES

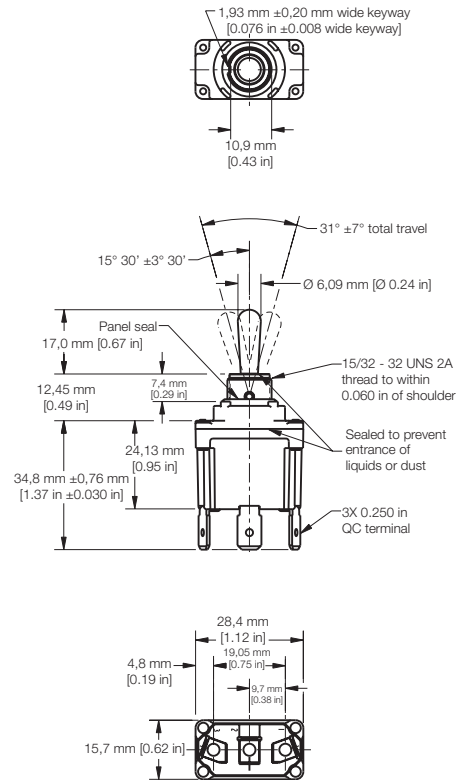
## FLAT BASE • STANDARD ACTUATOR OPTIONS, TERMINALS, & DIMENSIONS

NOTE: Three-position switches shown.

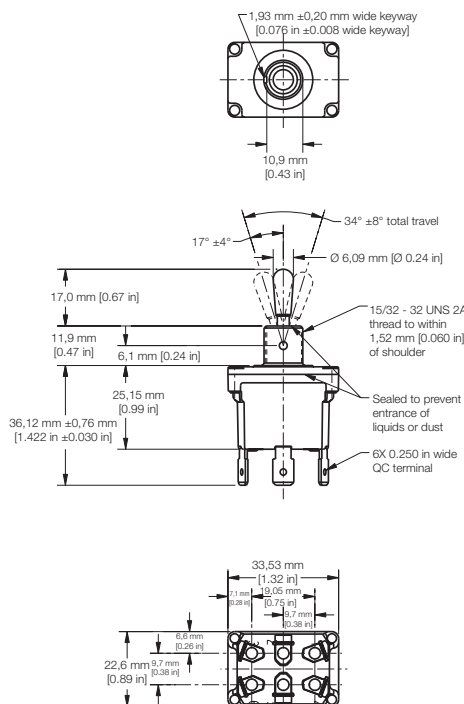
### 31NT91: SINGLE POLE, STANDARD LEVER, QUICK-CONNECT TERMINALS



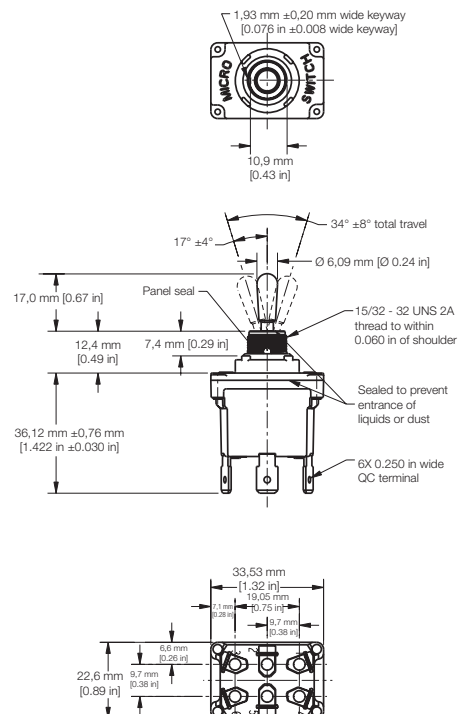
### 631NT91: SINGLE POLE, STANDARD LEVER, PANEL STANDOFF, QUICK-CONNECT TERMINALS



### 32NT91: DOUBLE POLE, STANDARD LEVER, QUICK-CONNECT TERMINALS



### 632NT91: STANDARD LEVER, PANEL STANDOFF, QUICK-CONNECT TERMINALS



# MICRO SWITCH COMMERCIAL-GRADE TOGGLE SWITCHES

## NT SERIES

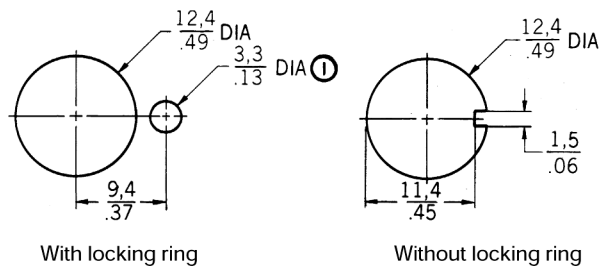
### MICRO SWITCH NT SERIES LOCKING CONFIGURATIONS

|                                                                                                                                                                       |                                                                                                                                                                   |                                                                                                                                                     |                                                                                                                                                                     |                                                                                                                                                           |                                                                                                                                                                   |                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A</b><br><br>Locked In<br>Three Positions                                         | <b>B</b><br><br>Locked In<br>Center and<br>Extreme Position<br>(Keyway Side)     | <b>D</b><br><br>Locked Out<br>Of Center<br>Position                | <b>E</b><br><br>Locked In<br>Center Position                                       | <b>F</b><br><br>Locked In<br>Extreme Position<br>(Opposite Keyway)      | <b>G</b><br><br>Locked In<br>Extreme Position<br>(Keyway Side)                 | <b>H</b><br><br>Locked Out Of<br>Center And<br>Extreme Position<br>(Keyway Side) |
| <b>J</b><br><br>Locked Out Of<br>Center And<br>Extreme Position<br>(Opposite Keyway) | <b>K</b><br><br>Locked In<br>Center And<br>Extreme Position<br>(Opposite Keyway) | <b>L</b><br><br>Locked Out Of<br>Extreme Position<br>(Keyway Side) | <b>M</b><br><br>Locked Out Of<br>And Into<br>Extreme Position<br>(Opposite Keyway) | <b>N</b><br><br>Locked Out Of<br>Extreme Position<br>(Opposite Keyway) | <b>P</b><br><br>Locked Out Of<br>And Into<br>Extreme Position<br>(Keyway Side) |                                                                                                                                                                     |

### PULL-TO-UNLOCK LEVERS

Pull-to-unlock toggle levers prevent accidental toggle movement. The knobbed toggle lever must be pulled out approximately 2,3 mm [0.09 in] to change positions. Thirteen different locking configurations are available. This lever style also has a non-glare matte nickel finish. See table below for specific locking configurations.

### MICRO SWITCH NT SERIES PANEL CUTOUT



Note:  
 © 1,4/.06 MIN DEEP TO ACCOMMODATE LOCKING RING. 15PA87 PANEL SEAL REQUIRES BLIND HOLE TO INSURE SEAL INTEGRITY

## WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items that Honeywell, in its sole discretion, finds defective. The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

While Honeywell may provide information or engineering support for its products through Honeywell personnel, literature and website, it is the buyer's sole responsibility to determine the suitability of the Honeywell product(s) for the buyer's requirements.

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## WARNING MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**

### For more information

Honeywell Sensing Solutions services its customers through a worldwide network of sales offices and distributors.

For application assistance, current specifications, pricing or the nearest Authorized Distributor, visit [our website](#) or call:

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| Japan         | +81 (0) 3-6730-7152 |
| Singapore     | +65 6355 2828       |
| Greater China | +86 4006396841      |

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