

## MICRO SWITCH™ Commercial-Grade Toggle Switches

AT Series

005435

Issue 1

Datasheet



### DESCRIPTION

Honeywell's MICRO SWITCH™ AT toggle switches provide a compact multi-pole toggle switch with a long history of successful performance, exceeding 50 years. The AT Toggle Switch Series is available as a 1-, 2-, 3-, 4-, 6-, 8-, or 10-pole design for a wide range of applications with a metal toggle lever, metal bushing, and metal housing for durability. Select AT Series are qualified to MIL-PRF-8805 for military applications. For applications which do not require a military approved switch, there are other AT Series switches for commercial and industrial applications.

Options for the AT Series include panel seals and lever-to-bushing seals. These options enhance product performance where environments of dust or water spray could be present in the application. Complementing the product offering, MICRO SWITCH™ AT toggle switch assemblies are available with individual poles (basic switches) which are UL, CSA, and CE certified.

### VALUE TO CUSTOMERS

- Multi-pole, multi-throw circuitry (up to 10 pole) for controlling independent circuits or providing redundant circuit capability
- Flexible insulators between poles minimize electrical bridging
- MIL-PRF-8805 qualified switches
- Reduces service costs
- Extends equipment life
- Front of panel sealing available

### DIFFERENTIATION

- Only manufacturer with 10-pole circuitry
- Utilizes proven and reliable snap-action switch design

### FEATURES

- Assemblies available as MIL-PRF-8805 qualified or the individual basic switches with UL, CSA, and CE certification
- 2- or 3-position, momentary and maintained action
- Up to 10 SPDT precision basic switches
- Short behind-panel depth
- Choice of 1/4- or 15/32-inch bushings
- Silver or gold contacts
- Lever lock options
- Toggle lever and panel seal options
- Electrical connections: screw, solder, quick connect (blade), and preleaded

### POTENTIAL APPLICATIONS

- Aircraft (commercial and military)
- Military ground vehicles
- Flight controls
- Vehicle panel controls

### PORTFOLIO

Honeywell offers six series of MICRO SWITCH™ toggle switches including the [TL Series](#), [NT Series](#), [TS Series](#), [TW Series](#), and [ET Series](#).

# MICRO SWITCH™ Commercial-Grade Toggle Switches, AT Series

Table 1. Specifications

| Characteristic                            | Parameter   |
|---|---|
| Description                               | Commercial-grade toggle switch; military-qualified toggle switches available  |
| Actuators                                 | Standard lever, locking lever, tab lever, special lever   |
| Lever action                              | 2- or 3-position with maintained or momentary action  |
| Mounting                                  | Panel mount threaded bushing; Ø 1/4 in [0.25] or 15/32 in [0.47]  |
| Bushing                                   | Ø 1/4 in [0.25 in] bushing 1-, 2-, or 3-single pole double throw (SPDT) basics;<br>Ø15/32 in [0.47 in] bushing 2-, 4-, 6-, 8-, or 10-single pole double throw (SPDT) basics |
| Termination                               | Solder thru-hole; solder single turret; solder double turret; screw; quick-connect blade; pre-leaded  |
| Contact material                          | Silver alloy or gold-plated silver alloy  |
| Electrical rating                         | 30 Vdc; 125 Vac; 250 Vac (See Tables 2 & 3)   |
| Electrical endurance (commercial grade)   | 6,000 cycles min.   |
| Electrical endurance (military qualified) | 25,000 cycles min.  |
| Sealing                                   | Unsealed; lever-to-bushing seal; panel seal & lever-to-bushing seal   |
| Operating temperature                     | -55 °C to 85 °C [-67 °F to 185 °F]  |
| Approvals                                 | Available as MIL-PRF-8805; or UL, CSA, CE [individual basic switches]<br>Select catalog listings with FAA-PMA   |

Table 2. 6AT/13AT/23AT Series with MICRO SWITCH™ SM type basic switch electrical ratings (amps)














| Supply voltage (contact material)                 | UL/CSA/CE rating for SM basic switch | Sea Level              |           |           | Altitude 50,000 ft   |           |           |
|---|--------------------------------------|------------------------|-----------|-----------|----------------------|-----------|-----------|
|   |                                      | Inrush @ 30 Vdc [max.] | Resistive | Inductive | Inrush @ 30 Vdc max. | Resistive | Inductive |
| 30 Vdc (silver contacts)                          | –                                    | 24                     | 5         | 3         | 24                   | 5         | 2.5       |
| 30 Vdc (gold contacts)                            | –                                    | 2                      | 1         | 0.5       | 2                    | 1         | 0.5       |
| 125 Vac, UL/CSA<br>250 Vac, CE<br>(gold contacts) | 1                                    | –                      | –         | –         | –                    | –         | –         |
| 250 Vac (silver contacts)                         | 5                                    | –                      | –         | –         | –                    | –         | –         |

Table 3. 60AT Series with MICRO SWITCH™ SX type basic switch electrical ratings (amps)

| Supply voltage (contact material) | UL/CSA/CE rating for SX basic switch | Sea Level |           | Altitude 50,000 ft |           |
|-----------------------------------|--------------------------------------|-----------|-----------|--------------------|-----------|
|                                   |                                      | Resistive | Inductive | Resistive          | Inductive |
| 28 Vdc (silver contacts)          | –                                    | 7         | 4         | 4                  | 2.5       |
| 115 Vac, 60 Hz (silver contacts)  | –                                    | 7         | 7         | –                  | –         |
| 250 Vac (silver contacts)         | 7                                    | –         | –         | –                  | –         |

# MICRO SWITCH™ Commercial-Grade Toggle Switches, AT Series

Figure 1. MICRO SWITCH™ AT Series Locking Configurations

|   |   |   |   |  |   |   |
|---|---|---|---|--|---|---|
| <br>Locked In<br>Three Positions   | <br>Locked In<br>Center and<br>Extreme Position<br>(Keyway Side)     | <br>Locked Out<br>Of Center<br>Position                | <br>Locked In<br>Center Position                                       | <br>Locked In<br>Extreme Position<br>(Opposite Keyway)     | <br>Locked In<br>Extreme Position<br>(Keyway Side)                 | <br>Locked Out Of<br>Center And<br>Extreme Position<br>(Keyway Side) |
| <br>Locked Out Of<br>Center And<br>Extreme Position<br>(Opposite Keyway) | <br>Locked In<br>Center And<br>Extreme Position<br>(Opposite Keyway) | <br>Locked Out Of<br>Extreme Position<br>(Keyway Side) | <br>Locked Out Of<br>And Into<br>Extreme Position<br>(Opposite Keyway) | <br>Locked Out Of<br>Extreme Position<br>(Opposite Keyway) | <br>Locked Out Of<br>And Into<br>Extreme Position<br>(Keyway Side) |   |

## TERMINAL CIRCUIT IDENTIFICATION (BOTTOM VIEW)

Terminal markings (electrical connections) are identified in the order guide section with a C (for common), NC (for normally closed), and NO (for normally open). In addition, the poles (basic switches) of the AT toggle switch are identified with a number marked on the end of the basic switch (i.e. a four pole switch will have each pole (basic switch) marked 1, 2, 3, or 4 on the end of each basic switch.

Figure 2. 6AT Series with 1PDT, 2PDT, or 3PDT

|                   | 1-Pole      | 2-Pole      | 3-Pole      |
|-------------------|-------------|-------------|-------------|
| Key tab or keyway | C • NO • NC | C • NO • NC | C • NO • NC |
|                   |             | C • NO • NC | C • NO • NC |
|                   |             |             | C • NO • NC |

Figure 3. 13AT Series with 2PDT, 3PDT, or 4PDT

|        | 2-Pole |             | 3-Pole |             | 4-Pole |             |
|--------|--------|-------------|--------|-------------|--------|-------------|
| Keyway | 2      | C • NO • NC | 3      | NC • NO • C | 4      | NC • NO • C |
|        | 1      | NC • NO • C | 2      | C • NO • NC | 3      | C • NO • NC |
|        |        |             | 1      | NC • NO • C | 2      | C • NO • NC |
|        |        |             |        |             | 1      | NC • NO • C |

Figure 4. 23AT Series with 2PDT, 3PDT, or 4PDT

|        | 2-Pole      | 3-Pole      | 4-Pole      |
|--------|-------------|-------------|-------------|
| Keyway | C • NO • NC | C • NO • NC | C • NO • NC |
|        | C • NO • NC | C • NO • NC | C • NO • NC |
|        |             | C • NO • NC | C • NO • NC |
|        |             |             | C • NO • NC |

Figure 5. 62AT Series (2PDT)

|        | 2-Pole |             |
|--------|--------|-------------|
| Keyway | 1      | NC • NO • C |
|        | 2      | NC • NO • C |

Figure 6. 64AT Series (4PDT)

|        |   |             |   |             |
|--------|---|-------------|---|-------------|
| Keyway | 1 | NC • NO • C | 3 | C • NO • NC |
|        | 2 | NC • NO • C | 4 | C • NO • NC |

Figure 7. 66AT Series (6PDT)

|        |   |             |   |             |
|--------|---|-------------|---|-------------|
| Keyway | 1 | NC • NO • C | 4 | C • NO • NC |
|        | 2 | NC • NO • C | 5 | C • NO • NC |
|        | 3 | NC • NO • C | 6 | C • NO • NC |

Figure 8. 68AT Series (8PDT)

|        |   |             |   |             |
|--------|---|-------------|---|-------------|
| Keyway | 1 | NC • NO • C | 5 | C • NO • NC |
|        | 2 | NC • NO • C | 6 | C • NO • NC |
|        | 3 | NC • NO • C | 7 | C • NO • NC |
|        | 4 | NC • NO • C | 8 | C • NO • NC |

# MICRO SWITCH™ Commercial-Grade Toggle Switches, AT Series

## 13AT SERIES THREE-POSITION ORDER GUIDE

Table 4. Three-Position 13AT Series

| No. of Poles/<br>Basic Switches | Toggle Lever Position  |                     |  | Contact Material | Standard Lever  | Metal Tab Lever                                     | Pull-to-unlock Lever                        | Lever-Lock Suffix <sup>1</sup>                     |
|---------------------------------|--|---------------------|--|------------------|---|---|---|--|
|                                 | Keyway   | Center              | Opposite Keyway  |                  | Solder Termination<br>No Suffix (thru-hole), -T Suffix (turrent), -T2 Suffix (double turrent) | Solder Termination with -T2 Suffix (double turrent) | Add Lever Lock Suffix to Cat. Listing Below |  |
| 2                               | Pole 1, C-NC<br>Pole 2, C-NO                                     | Both Poles,<br>C-NC | Pole 1, C-NO<br>Pole 2, C-NC                                     | Silver           | <b>13AT2,<br/>13AT2-T</b>   | <b>13AT402-T2</b>                                   | <b>13AT2-</b>                               | All lever lock types                               |
| 2                               | Pole 1, C-NC<br>Pole 2, C-NO                                     | Both Poles,<br>C-NC | Pole 1*, C-NO<br>Pole 2*, C-NC                                   | Silver           | <b>13AT3</b>  | -   | -   | Lever lock types <b>E, G, B, L, N,</b> or <b>P</b> |
| 2                               | Pole 1*, C-NC<br>Pole 2*, C-NO                                   | Both Poles,<br>C-NC | Pole 1*, C-NO<br>Pole 2*, C-NC                                   | Silver           | <b>13AT1,<br/>13AT1-T</b>   | <b>13AT401-T2</b>                                   | <b>13AT1-</b>                               | Lever lock types <b>E, L,</b> or <b>N</b>          |
| 2                               | Pole 1*, C-NC<br>Pole 2*, C-NO                                   | Both Poles,<br>C-NC | Pole 1*, C-NO<br>Pole 2*, C-NC                                   | Gold             | <b>13AT26</b>   | -   | -   | Lever lock types <b>E, L,</b> or <b>N</b>          |
| 4                               | Pole 1, C-NC<br>Pole 2, C-NO<br>Pole 3, C-NO<br>Pole 4, C-NC     | All Poles,<br>C-NC  | Pole 1, C-NO<br>Pole 2, C-NC<br>Pole 3, C-NC<br>Pole 4, C-NO     | Silver           | <b>13AT9-T2</b>   | -   | <b>13AT9-</b>                               | All lever lock types                               |
| 4                               | Pole 1, C-NC<br>Pole 2, C-NO<br>Pole 3, C-NO<br>Pole 4, C-NC     | All Poles,<br>C-NC  | Pole 1*, C-NO<br>Pole 2*, C-NC<br>Pole 3*, C-NC<br>Pole 4*, C-NO | Silver           | <b>13AT10</b>   | -   | -   | Lever lock types <b>E, G, B, L, N,</b> or <b>P</b> |
| 4                               | Pole 1*, C-NC<br>Pole 2*, C-NO<br>Pole 3*, C-NO<br>Pole 4*, C-NC | All Poles,<br>C-NC  | Pole 1*, C-NO<br>Pole 2*, C-NC<br>Pole 3*, C-NC<br>Pole 4*, C-NO | Silver           | <b>13AT8</b>  | -   | <b>13AT8-</b>                               | Lever lock types <b>E, L,</b> or <b>N</b>          |

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

C = Common Terminal; NC = Normally Closed Terminal; NO = Normally Open Terminal

<sup>1</sup> See page 3 for lever lock configurations

# MICRO SWITCH™ Commercial-Grade Toggle Switches, AT Series

## 13AT SERIES THREE-POSITION ORDER GUIDE

Table 5. Three-Position MIL-PRF-8805 13AT Catalog listings

| No. of Poles/<br>Basic Switches | Toggle Lever Position                                 |                     |  |                  | Standard Lever Solder Termination<br>-T2 Suffix (double turrent) |                      | Metal Tab Lever Solder Termination<br>-T2 Suffix (double turrent) |                      | Pull-to-Unlock Lever <sup>1</sup> |                              |
|---------------------------------|---|---------------------|--|------------------|--|----------------------|---|----------------------|-----------------------------------|------------------------------|
|                                 | Keyway  | Center              | Opposite Keyway  | Contact Material | Catalog Listing  | Military Part Number | Catalog Listing   | Military Part Number | Catalog Listing                   | Military Part Number         |
| 2                               | Pole 1,<br>C-NC<br>Pole 2,<br>C-NO                    | Both Poles,<br>C-NC | Pole 1,<br>C-NO<br>Pole 2,<br>C-NC                       | Silver           | 13AT272-T2   | M8805/26-007         | -   | -                    | 13AT272-T2-A<br>13AT272-T2-M      | M8805/92-006<br>M8805/92-014 |
| 2                               | Pole 1,<br>C-NC<br>Pole 2,<br>C-NO                    | Both Poles,<br>C-NC | Pole 1*,<br>C-NO<br>Pole 2*,<br>C-NC                     | Silver           | 13AT273-T2   | M8805/26-009         | -   | -                    | -                                 | -                            |
| 2                               | Pole 1*,<br>C-NC<br>Pole 2*,<br>C-NO                  | Both Poles,<br>C-NC | Pole 1*,<br>C-NO<br>Pole 2*,<br>C-NC                     | Silver           | 13AT271-T2   | M8805/26-005         | 13AT471-T2  | M8805/26-006         | 13AT271-T2-E                      | M8805/92-005                 |
| 3                               | Pole 1,<br>C-NC<br>Pole 2,<br>C-NO<br>Pole 3,<br>C-NC | All Poles,<br>C-NC  | Pole 1*,<br>C-NO<br>Pole 2*,<br>C-NC<br>Pole 3*,<br>C-NO | Silver           | 13AT275-T2   | M8805/26-013         | 13AT475-T2  | M8805/26-014         | -                                 | -                            |

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

C = Common Terminal; NC = Normally Closed Terminal; NO = Normally Open Terminal

<sup>1</sup>See page 3 for lever lock configurations

# MICRO SWITCH™ Commercial-Grade Toggle Switches, AT Series

## 23AT SERIES TWO-POSITION ORDER GUIDE

Table 6. Two-Position 23AT Series

| No. of Poles/<br>Basic Switches | Toggle Lever Position |                 | Contact Material | Standard Lever   | Metal Tab Lever                                     | Pull-to-unlock Lever                        | Lever-lock Suffix <sup>1</sup> |
|---------------------------------|-----------------------|-----------------|------------------|--|---|---|--------------------------------|
|                                 | Keyway                | Opposite Keyway |                  | Solder Termination No Suffix (through-hole), -T2 Suffix (double turrent) | Solder Termination with -T2 Suffix (double turrent) | Add Lever Lock Suffix to Cat. Listing below |                                |
| 2                               | C-NO ea Pole          | C-NC ea Pole    | Silver           | 23AT1, 23AT1-T2  | 23AT402-T2  | 23AT1-                                      | D, F, or G                     |
| 2                               | C-NO ea Pole          | C-NC ea Pole    | Gold             | 23AT11, 23AT11-T2  | -   | 23AT1-                                      | D, F, or G                     |
| 2                               | C-NO ea Pole*         | C-NC ea Pole    | Silver           | 23AT4, 23AT4-T2  | 23AT403-T2  | -   | -                              |
| 2                               | C-NO ea Pole*         | C-NC ea Pole    | Gold             | 23AT19   | -   | -   | -                              |
| 3                               | C-NO ea Pole          | C-NC ea Pole    | Silver           | 23AT2, 23 AT2-T2   | -   | 23AT2-                                      | D, F, or G                     |
| 3                               | C-NO ea Pole*         | C-NC ea Pole    | Silver           | 23AT5  | -   | -   | -                              |
| 4                               | C-NO ea Pole          | C-NC ea Pole    | Silver           | 23AT3, 23AT-T2   | -   | 23AT3-                                      | D, F, or G                     |
| 4                               | C-NO ea Pole          | C-NC ea Pole    | Gold             | 23AT8  | -   | -   | -                              |
| 4                               | C-NO ea Pole*         | C-NC ea Pole    | Silver           | 23AT6, 23AT6-T2  | -   | -   | -                              |

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

<sup>1</sup> See page 3 for lever lock configurations

## 23AT SERIES TWO-POSITION ORDER GUIDE

Table 7. Two-Position MIL-PRF-8805 23AT Catalog listings

| No. of Poles/<br>Basic Switches | Toggle Lever Position |                 | Contact Material | Standard Lever Solder Termination -T2 Suffix (double turrent) |                      | Metal Tab Lever Solder Termination -T2 Suffix (double turrent) |                      | Pull-to-Unlock Lever <sup>1</sup> |                      |
|---------------------------------|-----------------------|-----------------|------------------|---|----------------------|--|----------------------|-----------------------------------|----------------------|
|                                 | Keyway                | Opposite Keyway |                  | Catalog Listing   | Military Part Number | Catalog Listing  | Military Part Number | Catalog Listing                   | Military Part Number |
| 2                               | C-NO ea Pole          | C-NC ea Pole    | Silver           | 23AT73-T2   | M8805/26-001         | 23AT473-T2   | M8805/26-003         | 23AT73-T2-D                       | M8805/92-001         |
| 4                               | C-NO ea Pole          | C-NC ea Pole    | Silver           | 23AT74-T2   | M8805/26-002         | -  | -                    | 23AT74-T2-D                       | M8805/92-002         |
| 4                               | C-NO ea Pole          | C-NC ea Pole    | Silver           | -   | -                    | -  | -                    | 23AT74-T2-G                       | M8805/92-004         |

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

<sup>1</sup> See page 3 for lever lock configurations

# MICRO SWITCH™ Commercial-Grade Toggle Switches, AT Series

## 6AT SERIES TWO-POSITION ORDER GUIDE

Table 8. Two-Position 6AT Series

| Bushing Size                                   | No. of Poles/<br>Basic Switches | Toggle Lever Position |                    | Contact<br>Material | Standard Lever  |
|--|---------------------------------|-----------------------|--------------------|---------------------|---|
|  |                                 | Keyway                | Opposite<br>Keyway |                     | Solder Termination<br>No Suffix (thru-hole),<br>-T Suffix (turrent) |
| 1/4 (0.25) inch Ø bushing with key<br>tab      | 1                               | C-NO                  | C-NC               | Silver              | <b>6AT2; 6AT2-T</b>   |
|  | 1                               | C-NO                  | C-NC               | Gold                | <b>6AT23</b>  |
|  | 2                               | C-NO ea Pole          | C-NC ea Pole       | Silver              | <b>6AT3; 6AT3-T</b>   |
|  | 2                               | C-NO ea Pole          | C-NC ea Pole       | Gold                | <b>6AT13</b>  |
|  | 3                               | C-NO ea Pole          | C-NC ea Pole       | Silver              | <b>6AT501; 6AT501-T</b>   |
| 1/4 (0.25) inch Ø bushing without<br>key tab   | 1                               | C-NO                  | C-NC               | Silver              | <b>6AT1; 6AT1-T</b>   |
|  | 2                               | C-NO                  | C-NC               | Silver              | <b>6AT4</b>   |
| 15/32 (0.47) inch Ø bushing with<br>key washer | 1                               | C-NO                  | C-NC               | Silver              | <b>6AT6</b>   |
|  | 1                               | C-NO                  | C-NC               | Gold                | <b>6AT17</b>  |
|  | 2                               | C-NO ea Pole          | C-NC ea Pole       | Silver              | <b>6AT7</b>   |
|  | 2                               | C-NO ea Pole          | C-NC ea Pole       | Gold                | <b>6AT42</b>  |
|  | 3                               | C-NO ea Pole          | C-NC ea Pole       | Silver              | <b>6AT10; 6AT10-T</b>   |

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

## 60AT SERIES TWO-POSITION ORDER GUIDE

Table 9. Two-Position 60AT Series

| No. of Poles/<br>Basic Switches | Toggle Lever Position                   |   | Standard Lever               | Standard Lever                   | Pull-to-unlock Lever <sup>1</sup>                 |
|---------------------------------|---|---|------------------------------|----------------------------------|---|
|                                 | Keyway                                  | Opposite Keyway                         | Mil-S-6743<br>Basic Switches | MIL-PRF-8805/4<br>Basic Switches | Add Lever Lock Suffix<br>"Letter" to Cat. Listing |
| 2                               | C-NC ea Pole                            | C-NO ea Pole                            | <b>62AT11-3</b>              | <b>62AT22-3</b>                  | <b>D, G</b>                                       |
| 2                               | C-NC ea Pole                            | C-NO ea Pole*                           | -                            | <b>62AT22-82</b>                 | <b>G</b>  |
| 4                               | C-NC Pole 1,2;<br>C-NO Pole 3,4         | C-NC Pole 3,4;<br>C-NO Pole 1,2         | <b>64AT11-3</b>              | <b>64AT22-3</b>                  | <b>D, F, G</b>                                    |
| 6                               | C-NC Pole 1,2,3;<br>C-NO Pole 4,5,6     | C-NC Pole 4,5,6;<br>C-NO Pole 1,2,3     | <b>66AT11-3</b>              | <b>66AT22-3</b>                  | <b>D, F, G</b>                                    |
| 8                               | C-NC Pole 1,2,3,4;<br>C-NO Pole 5,6,7,8 | C-NC Pole 5,6,7,8;<br>C-NO Pole 1,2,3,4 | -                            | <b>68AT22-3</b>                  | <b>D, F, G</b>                                    |

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

<sup>1</sup>See page 3 for lever lock configurations

# MICRO SWITCH™ Commercial-Grade Toggle Switches, AT Series

## 60AT SERIES TWO-POSITION ORDER GUIDE

Table 10. Two-position 60AT Series per MIL-PRF-8805/98 (with Bushing and Panel Seals)

| No. of Poles/<br>Basic Switches | Toggle Lever Position                   |   | Standard Lever   | Standard Lever      | Pull-to-Unlock<br>Lever <sup>1</sup>                                       | Pull-to-Unlock<br>Lever <sup>1</sup> |
|---------------------------------|---|---|------------------|---------------------|--|--------------------------------------|
|                                 | Keyway                                  | Opposite Keyway                         | Catalog Listing  | Military<br>Number  | Add Lever Lock<br>Suffix "Letter"<br>to Standard<br>Lever TOGGLE<br>Switch | Military<br>Number                   |
| 4                               | C-NC Pole 1,2;<br>C-NO Pole 3,4         | C-NC Pole 3,4;<br>C-NO Pole 1,2         | <b>64AT300-3</b> | <b>M8805/98-015</b> | <b>D, F, G</b>   | <b>M8805/98-**</b>                   |
| 6                               | C-NC Pole 1,2,3;<br>C-NO Pole 4,5,6     | C-NC Pole 4,5,6;<br>C-NO Pole 1,2,3     | <b>66AT300-3</b> | <b>M8805/98-046</b> | <b>D, F, G</b>   | <b>M8805/98-**</b>                   |
| 8                               | C-NC Pole 1,2,3,4;<br>C-NO Pole 5,6,7,8 | C-NC Pole 5,6,7,8;<br>C-NO Pole 1,2,3,4 | <b>68AT300-3</b> | <b>M8805/98-077</b> | <b>D, F, G</b>   | <b>M8805/98-**</b>                   |

\*\* Add the appropriate 3 digit suffix to the military number

<sup>1</sup> See page 3 for lever lock configurations

## 60AT SERIES THREE-POSITION ORDER GUIDE

Table 11. Three-Position 60AT Series

| No. of<br>Poles/<br>Basic<br>Switches | Toggle Lever Position                    |              |  | Standard Lever               | Standard Lever                   | Pull-to-Inlock<br>Lever <sup>1</sup>                |
|---------------------------------------|--|--------------|--|------------------------------|----------------------------------|---|
|                                       | Keyway                                   | Center       | Opposite Keyway                          | Mil-S-6743<br>Basic Switches | MIL-PRF-8805/4<br>Basic Switches | Add Lever Lock<br>Suffix Options to<br>Cat. Listing |
| 4                                     | C-NC Pole 1,2;<br>C-NO Pole 3,4          | C-NC ea Pole | C-NC Pole 3,4;<br>C-NO Pole 1,2          | <b>64AT11-1</b>              | <b>64AT22-1</b>                  | <b>All lever lock<br/>options</b>                   |
| 4                                     | C-NC Pole 1,2,*<br>C-NO Pole 3,4*        | C-NC ea Pole | C-NC Pole 3,4;<br>C-NO Pole 1,2          | <b>64AT11-5</b>              | <b>64AT22-5</b>                  | <b>E,F,K,L,M,N</b>                                  |
| 4                                     | C-NC Pole 1,2;<br>C-NO Pole 3,4          | C-NC ea Pole | C-NC Pole 3,4*<br>C-NO Pole 1,2*         | -                            | <b>64AT22-514</b>                | <b>B,E,G,L,N,P</b>                                  |
| 4                                     | C-NC Pole 1,2,*<br>C-NO Pole 3,4*        | C-NC ea Pole | C-NC Pole 3,4*<br>C-NO Pole 1,2*         | <b>64AT11-7</b>              | <b>64AT22-7</b>                  | <b>E,L,N</b>  |
| 6                                     | C-NC Pole 1,2,3;<br>C-NO Pole 4,5,6      | C-NC ea Pole | C-NC Pole 4,5,6;<br>C-NO Pole 1,2,3      | <b>66AT11-1</b>              | <b>66AT22-1</b>                  | <b>All lever lock<br/>options</b>                   |
| 6                                     | C-NC Pole 1,2,3*<br>C-NO Pole 4,5,6*     | C-NC ea Pole | C-NC Pole 4,5,6;<br>C-NO Pole 1,2,3      | <b>66AT11-5</b>              | <b>66AT22-5</b>                  | <b>E,F,K,L,M,N</b>                                  |
| 6                                     | C-NC Pole 1,2,3;<br>C-NO Pole 4,5,6      | C-NC ea Pole | C-NC Pole 4,5,6*<br>C-NO Pole 1,2,3*     | <b>66AT11-514</b>            | -                                | <b>B,E,G,L,N,P</b>                                  |
| 6                                     | C-NC Pole 1,2,3*<br>C-NO Pole 4,5,6*     | C-NC ea Pole | C-NC Pole 4,5,6*<br>C-NO Pole 1,2,3*     | <b>66AT11-7</b>              | <b>66AT22-7</b>                  | <b>E,L,N</b>  |
| 8                                     | C-NC Pole 1,2,3,4;<br>C-NO Pole 5,6,7,8  | C-NC ea Pole | C-NC Pole 5,6,7,8;<br>C-NO Pole 1,2,3,4  | <b>68AT11-1</b>              | <b>68AT22-1</b>                  | <b>All lever lock<br/>options</b>                   |
| 8                                     | C-NC Pole 1,2,3,4*<br>C-NO Pole 5,6,7,8* | C-NC ea Pole | C-NC Pole 5,6,7,8;<br>C-NO Pole 1,2,3,4  | <b>68AT11-5</b>              | <b>68AT22-5</b>                  | <b>E,F,K,L,M,N</b>                                  |
| 8                                     | C-NC Pole 1,2,3,4*<br>C-NO Pole 5,6,7,8* | C-NC ea Pole | C-NC Pole 5,6,7,8*<br>C-NO Pole 1,2,3,4* | <b>68AT11-7</b>              | <b>68AT22-7</b>                  | <b>E,L,N</b>  |

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

<sup>1</sup> See page 3 for lever lock configurations



# MICRO SWITCH™ Commercial-Grade Toggle Switches, AT Series

## 60AT SERIES THREE-POSITION ORDER GUIDE

Table 12. Three-position 60AT Series per MIL-PRF-8805/98 (with Bushing and Panel Seals)

| No. of Poles/<br>Basic Switches | Toggle Lever Position                     |                 |   | Standard Lever  | Standard Lever  | Pull-to-Un-lock Lever <sup>1</sup>                             | Pull-to-Un-lock Lever <sup>1</sup> |
|---------------------------------|---|-----------------|---|-----------------|-----------------|--|------------------------------------|
|                                 | Keyway                                    | Center          | Opposite Keyway                           | Catalog Listing | Military Number | Add Lever Lock Suffix "Letter" to Standard Lever Toggle Switch | Military Number                    |
| 4                               | C-NC Pole 1,2;<br>C-NO Pole 3,4           | C-NC ea<br>Pole | C-NC Pole 3,4<br>C-NO Pole 1,2            | 64AT300-1       | M8805/98-001    | All lever lock types   | M8805/98-**                        |
| 4                               | C-NC Pole 1,2,*<br>C-NO Pole 3,4*         | C-NC ea<br>Pole | C-NC Pole 3,4<br>C-NO Pole 1,2            | 64AT300-5       | M8805/98-019    | E,F,K,L,M,N  | M8805/98-**                        |
| 4                               | C-NC Pole 1,2,*<br>C-NO Pole 3,4*         | C-NC ea<br>Pole | C-NC Pole 3,4,*<br>C-NO Pole 1,2*         | 64AT300-7       | M8805/98-026    | E,L,N  | M8805/98-**                        |
| 6                               | C-NC Pole 1,2,3;<br>C-NO Pole 4,5,6       | C-NC ea<br>Pole | C-NC Pole 4,5,6;<br>C-NO Pole 1,2,3       | 66AT300-1       | M8805/98-032    | All lever lock types   | M8805/98-**                        |
| 6                               | C-NC Pole 1,2,3,*<br>C-NO Pole 4,5,6*     | C-NC ea<br>Pole | C-NC Pole 4,5,6;<br>C-NO Pole 1,2,3       | 66AT300-5       | M8805/98-050    | E,F,K,L,M,N  | M8805/98-**                        |
| 6                               | C-NC Pole 1,2,3,*<br>C-NO Pole 4,5,6*     | C-NC ea<br>Pole | C-NC Pole 4,5,6,*<br>C-NO Pole 1,2,3*     | -               | M8805/98-057    | 66AT300-7*<br>E,L,N  | M8805/98-**                        |
| 8                               | C-NC Pole 1,2,3,4;<br>C-NO Pole 5,6,7,8   | C-NC ea<br>Pole | C-NC Pole 5,6,7,8;<br>C-NO Pole 1,2,3,4   | 68AT300-1       | M8805/98-063    | All lever lock types   | M8805/98-**                        |
| 8                               | C-NC Pole 1,2,3,4,*<br>C-NO Pole 5,6,7,8* | C-NC ea<br>Pole | C-NC Pole 5,6,7,8;<br>C-NO Pole 1,2,3,4   | -               | M8805/98-081    | 68AT300-5*<br>E,F,K,L,M,N                                      | M8805/98-**                        |
| 8                               | C-NC Pole 1,2,3,4,*<br>C-NO Pole 5,6,7,8* | C-NC ea<br>Pole | C-NC Pole 5,6,7,8,*<br>C-NO Pole 1,2,3,4* | -               | M8805/98-092    | 68AT300-7*<br>E,L,N  | M8805/98-**                        |

\* Momentary position. All other positions are maintained.

\*\* Add the appropriate 3 digit suffix to the military number

+ Add the lever lock "letter" to the base catalog listing

<sup>1</sup> See page 3 for lever lock configurations

# MICRO SWITCH™ Commercial-Grade Toggle Switches, AT Series

## DIMENSIONAL DRAWINGS

Figure 9. 13/23AT Series, Standard Lever

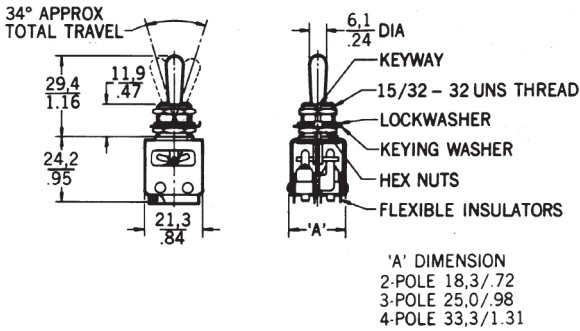


Figure 14. 62AT Series, Standard Lever

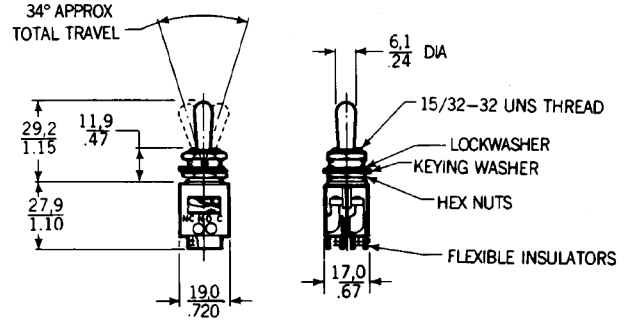


Figure 10. 13/23AT Series, Tab Lever

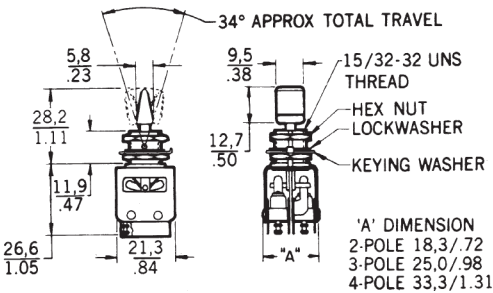


Figure 15. 64/66/68AT Series, Locking Lever

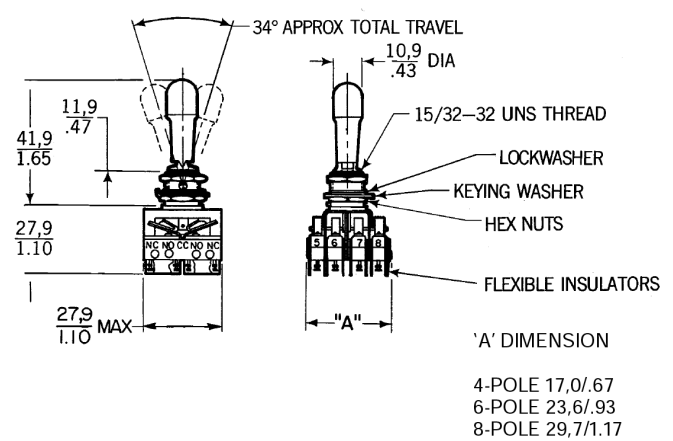


Figure 11. 13/23AT Series, Locking Lever

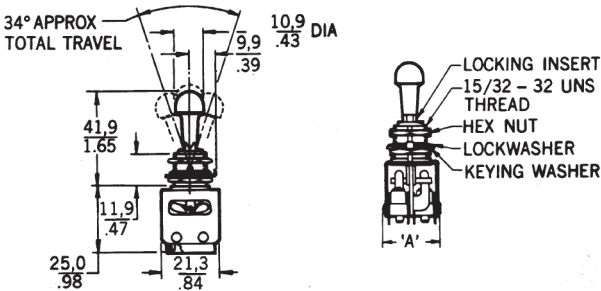


Figure 16. Panel Cutouts

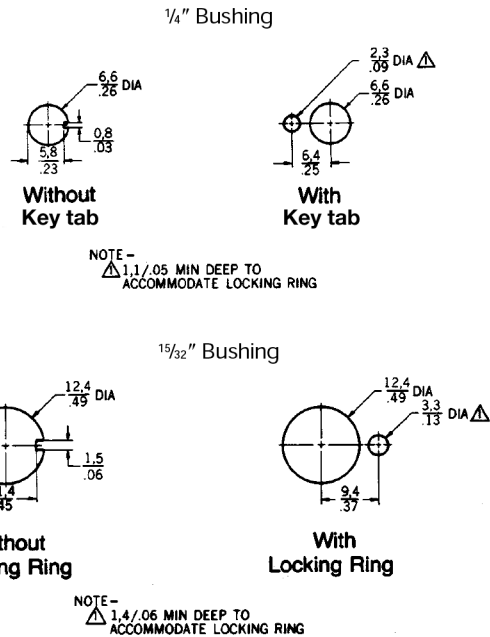


Figure 12. 6AT Series, with Keying Washer

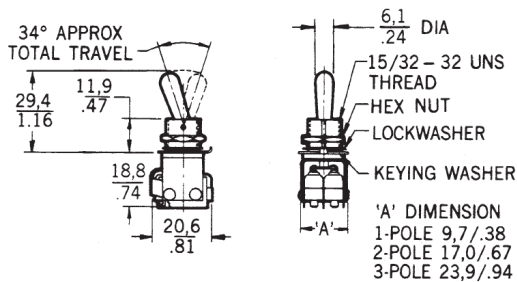
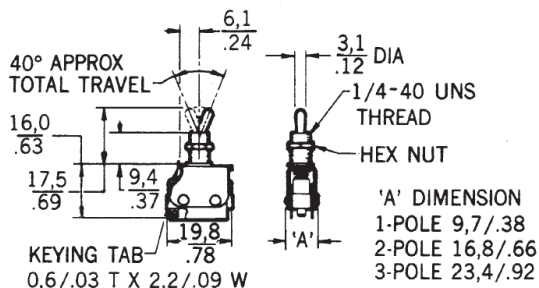


Figure 13. 6AT Series, Bushing with Key Tab



NOTE—  
64AT300, 66AT300, and 68AT300 (M8805/98) listings have a bushing seal and MS25196 panel seal.

## ADDITIONAL MATERIALS

The following associated literature is available on the Honeywell web site at [sensing.honeywell.com](http://sensing.honeywell.com):

- Product line guide
- Product range guide
- Application note: Flight deck toggle switches
- Application note: Sensors and switches in oil rig applications

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

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