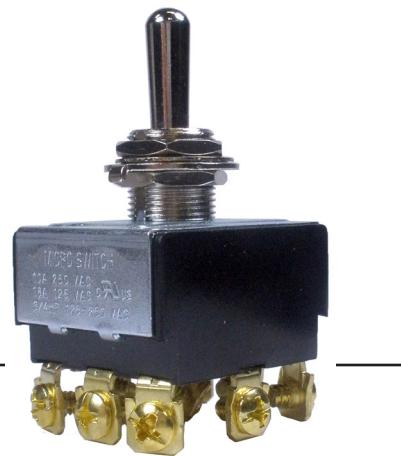


# MICRO SWITCH™ TS Series

## Toggle Switch



### DESCRIPTION

MICRO SWITCH™ TS Series toggles may be used anywhere manual operation is desired. They are an entry-level solution for applications that require an unsealed toggle switch. Special on-on-on circuitry can also be furnished. MICROSWITCH™ TS

Series switches features broad circuitry and action availability considering 2- or 3-position options, momentary and maintained actions, and 1- and 2-pole circuitry. Switches available with solder, screw or quick-connect termination styles.

### FEATURES

- 2- or 3- position, momentary and maintained action
- 1- and 2- pole circuitry
- Rated up to 10 A
- Lever-to-bushing seal
- Solder, screw, or quick-connect terminals
- UL, cURus approvals

### POTENTIAL APPLICATIONS

- Industrial machinery and equipment
- Construction equipment
- Test instruments
- Agricultural machinery
- Process control
- Medical instrumentation

# MICRO SWITCH™ TS Series

## SPECIFICATIONS

| Characteristic                            | Parameter  |
|---|--|
| <b>Operating temperature</b>              | -54 °C to 71 °C [-65 °F to 160 °F]   |
| <b>Actuators</b>                          | Standard levers  |
| <b>Action</b>                             | Momentary, maintained  |
| <b>Mounting</b>                           | Bushing 15/32 in   |
| <b>Circuitry</b>                          | SPDT, DPDT   |
| <b>Terminations</b>                       | Solder, screw, quick-connect   |
| <b>Contacts</b>                           | Silver tin oxide and indium oxide  |
| <b>Amp rating</b>                         | 10 A   |
| <b>Electrical rating (resistive load)</b> | 0.4 A to 10 A @ 126 Vac to 277 Vac<br>0.4 A to 20 A @ 0.5 Vac to 125 Vac   |
| <b>Approvals</b>                          | UL, CSA  |
| <b>Measurement</b>                        | 55.83 mm H x 28.58 mm W x 16.51 mm D [2.198 in H x 1.125 in W x 0.65 in D] |

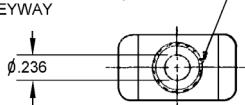
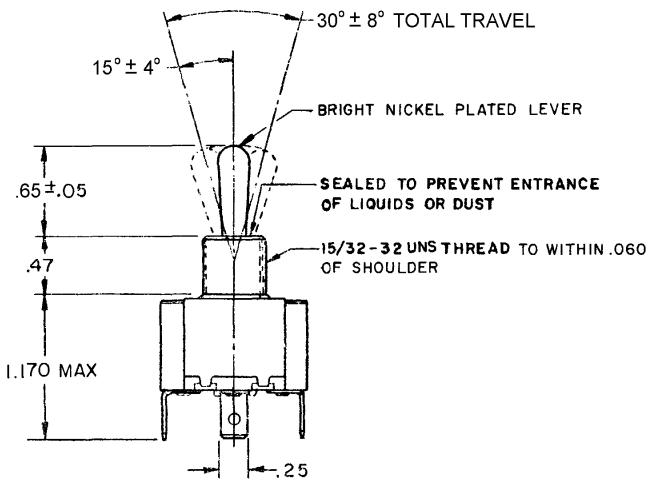
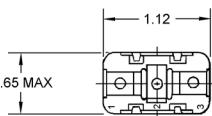
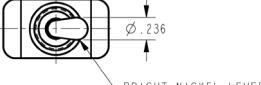
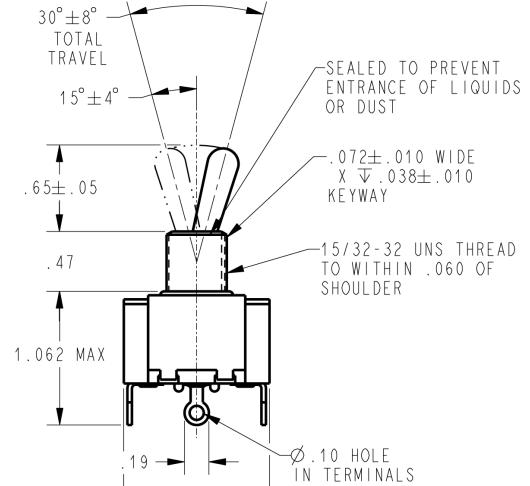
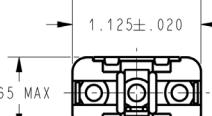
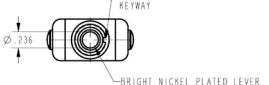
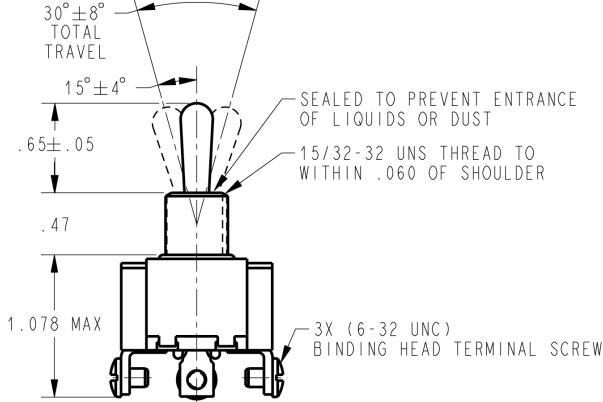
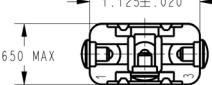
## ELECTRICAL RATINGS

| Product part number     | Electrical rating                                       |
|-------------------------|---|
| <b>11TS</b>             | 10 A, 277 Vac; 20 A, 125 Vac; 3/4 HP, 125 Vac / 250 Vac |
| <b>12TS</b>             | 10 A, 277 Vac; 20 A, 125 Vac; 1½ HP, 125 Vac / 250 Vac  |
| <b>13TS15-1, -2, -3</b> | 18 A, 125 Vac; 10 A, 250 Vac; 3/4 HP, 125 Vac / 250 Vac |
| <b>13TS15-7</b>         | 16 A, 125 Vac; 10 A, 250 Vac; 3/4 HP, 125 Vac / 250 Vac |

# Toggle Switch

## STANDARD ACTUATOR OPTIONS, TERMINALS, & DIMENSIONS

Note: Single pole TS switches shown

| Description                         | Top   | Front   | Bottom  |
|-------------------------------------|---|---|---|
| Standard Lever,<br>QC Terminals     |  <p>.072±.010 WIDE X .038±.010 KEYWAY<br/>Ø.236</p>                                  |  <p>30°±8° TOTAL TRAVEL<br/>15°±4°<br/>.65±.05<br/>.47<br/>1.170 MAX<br/>.25<br/>BRIGHT NICKEL PLATED LEVER<br/>SEALED TO PREVENT ENTRANCE OF LIQUIDS OR DUST<br/>15/32-32 UNS THREAD TO WITHIN .060 OF SHOULDER</p>                                    |  <p>1.12<br/>.65 MAX</p>         |
| Standard Lever,<br>Solder Terminals |  <p>Ø.236<br/>BRIGHT NICKEL LEVER</p>   |  <p>30°±8° TOTAL TRAVEL<br/>15°±4°<br/>.65±.05<br/>.47<br/>1.062 MAX<br/>.19<br/>Ø.10 HOLE IN TERMINALS<br/>SEALED TO PREVENT ENTRANCE OF LIQUIDS OR DUST<br/>.072±.010 WIDE X .038±.010 KEYWAY<br/>15/32-32 UNS THREAD TO WITHIN .060 OF SHOULDER</p> |  <p>1.125±.020<br/>.65 MAX</p>  |
| Standard Lever,<br>Screw Terminals  |  <p>Ø.236<br/>BRIGHT NICKEL PLATED LEVER<br/>.072±.010 WIDE X .038±.010 KEYWAY</p> |  <p>30°±8° TOTAL TRAVEL<br/>15°±4°<br/>.65±.05<br/>.47<br/>1.078 MAX<br/>SEALED TO PREVENT ENTRANCE OF LIQUIDS OR DUST<br/>15/32-32 UNS THREAD TO WITHIN .060 OF SHOULDER<br/>3X (6-32 UNC) BINDING HEAD TERMINAL SCREW</p>                           |  <p>1.125±.020<br/>.65 MAX</p> |

# MICRO SWITCH™ TS Series

## TS 2-POSITION ORDER GUIDE

| No. of poles | Circuits Made with Toggle At: |                 |                | Catalog Listing |                  |                         |
|--------------|-------------------------------|-----------------|----------------|-----------------|------------------|-------------------------|
|              | Keyway Position               | Opposite Keyway | UL Rating Code | Screw Terminals | Solder Terminals | Quick-Connect Terminals |
| 1            | OFF                           | 2-3 ON          | L311           | 11TS15-2        | 11TS115-2        | 11TS95-2                |
|              | 2-1 ON                        | 2-3 ON          | L311           | 11TS15-3        | 11TS115-3        | 11TS95-3                |
|              | OFF*                          | 2-3 ON          | L312           | 11TS15-4        | 11TS115-4        | 11TS95-4                |
|              | 2-1 ON*                       | OFF             | L312           | 11TS15-6        | 11TS115-6        | 11TS95-6                |
|              | 2-1 ON*                       | 2-3 ON          | L312           | 11TS15-8        | 11TS115-8        | —                       |
| 2            | OFF                           | 2-3 & 5-6 ON    | L311           | 12TS15-2        | 12TS115-2        | 12TS95-2                |
|              | 2-1 ON & 5-4 ON               | 2-3 & 5-6 ON    | L311           | 12TS15-3        | 12TS115-3        | 12TS95-3                |
|              | OFF*                          | 2-3 & 5-6 ON    | L312           | 12TS15-4        | —                | —                       |
|              | 2-1 ON & 5-4 ON*              | OFF             | L312           | 12TS15-6        | —                | —                       |
|              | 2-1 ON & 5-4 ON*              | 2-3 & 5-6 ON    | L312           | 12TS15-8        | 12TS115-8        | —                       |

\* Marked toggle positions are momentary. All others are maintained.

## TS 3-POSITION ORDER GUIDE

| No. of poles | Circuits Made with Toggle At: |                 |                 | Catalog Listing |                 |                  |                         |
|--------------|-------------------------------|-----------------|-----------------|-----------------|-----------------|------------------|-------------------------|
|              | Keyway Position               | Center Position | Opposite Keyway | UL Rating Code  | Screw Terminals | Solder Terminals | Quick-connect Terminals |
| 1            | 2-1 ON                        | OFF             | 2-3 ON          | L311            | 11TS15-1        | 11TS115-1        | 11TS95-1                |
|              | NONE                          | OFF             | 2-3 ON          | L311            | —               | —                | —                       |
|              | 2-1 ON*                       | OFF             | 2-3 ON          | L312            | 11TS15-5        | 11TS115-5        | 11TS95-5                |
|              | 2-1 ON*                       | OFF             | NONE            | L312            | —               | —                | —                       |
|              | 2-1 ON*                       | OFF             | 2-3 ON*         | L312            | 11TS15-7        | 11TS115-7        | 11TS95-7                |
| 2            | 2-1 & 5-4 ON                  | OFF             | 2-3 & 5-6 ON    | L311            | 12TS15-1        | 12TS115-1        | 12TS95-1                |
|              | NONE                          | OFF             | 2-3 & 5-6 ON    | L311            | —               | —                | —                       |
|              | 2-1 & 5-4 ON*                 | OFF             | 2-3 & 5-6 ON    | L312            | 12TS15-5        | 12TS115-5        | 12TS95-5                |
|              | 2-1 & 5-4 ON*                 | OFF             | NONE            | L312            | —               | —                | —                       |
|              | 2-1 & 5-4 ON*                 | OFF             | 2-3 & 5-6 ON*   | L312            | 12TS15-7        | —                | 12TS95-7                |
|              | 2-1 & 5-4 ON                  | 2-1 & 5-6 ON    | 2-3 & 5-6 ON    | L312            | —               | —                | 12TS95-10               |

\* Marked toggle positions are momentary. All others are maintained.

# Toggle Switch

**This Honeywell datasheet supports the following MICRO SWITCH™ TS Series Toggle Switch Listings**

|                |             |
|----------------|-------------|
| 11TS115-1      | 12TS115-5   |
| 11TS115-2      | 12TS115-7   |
| 11TS115-3      | 12TS115-8   |
| 11TS115-5      | 12TS130-77  |
| 11TS115-6      | 12TS15-1    |
| 11TS115-7      | 12TS15-2    |
| 11TS115-8      | 12TS15-3    |
| 11TS15-1       | 12TS15-4    |
| 11TS15-2       | 12TS15-5    |
| 11TS15-3       | 12TS15-6    |
| 11TS15-4       | 12TS15-7    |
| 11TS15-5       | 12TS15-8    |
| 11TS15-6       | 12TS95-1    |
| 11TS15-7       | 12TS95-10   |
| 11TS15-8       | 12TS95127-3 |
| 11TS315-131    | 12TS95127-7 |
| 11TS95-1       | 12TS95-2    |
| 11TS95-2       | 12TS95-3    |
| 11TS95-2-HY    | 12TS95-5    |
| 11TS95-3       | 12TS95-7    |
| 11TS95-4       | 12TS95-70   |
| 11TS95-5       | 12TS95-77   |
| 11TS95-6       | 12TS95-8    |
| 11TS95-7       | 13TS15-1    |
| 11TS95-7-BP    | 13TS15-2    |
| 11TS95-7-NH    | 13TS15-3    |
| 11TS95801-2-TN | 13TS15-7    |
| 12TS115-1      |             |
| 12TS115-2      |             |
| 12TS115-3      |             |

**Warranty.** Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement 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 it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all 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 we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

### Find out more

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office.

To learn more about Honeywell's sensing and control products, call **+1-815-235-6847/**

**1-800-537-6945**, visit

**sensing.honeywell.com**,

or e-mail inquiries to

**info.sc@honeywell.com**

Sensing and Control

**Honeywell**

1985 Douglas Drive North

Golden Valley, MN 55422 USA

**honeywell.com**

### **WARNING**

#### **MISUSE OF DOCUMENTATION**

- The information presented in this datasheet is for reference only. DO NOT USE this document as product installation information.
- 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.**

### **WARNING**

#### **PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

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

**Honeywell**

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Honeywell](#):

[12TS115-7](#) [12TS95127-3](#) [12TS95127-7](#) [12TS95-70](#) [11TS95-7-NH](#) [12TS130-77](#) [11TS315-131](#) [12TS95-77](#)  
[11TS95801-2-TN](#)