

# Test Switches

The W3TS Knife Blade Test Switch facilitates the testing, calibrating, disconnecting, troubleshooting, and checkout of control systems, meters, relays, instruments, transformers, and transducers.

The W3TS Test Switch, a miniature 60V/30A knife blade switch (5/8 inch centers including barrier) with #10-32 stud terminals, is available in three types: Basic Switch, Short-Circuiting Switch (Shorting Switch), and Test Jack Switch.

The three types of test switches can be arranged in any combination of elements with one to 52 poles in a single block. The arrangements can also include single terminals, through bars and blank spaces. Diagrams of standard elements are available.

Each Test Switch can be operated independently or, for simultaneous operation, adjacent handles can be ganged together with an insulated yoking bar. Test switches can be electrically connected with a common bar.

Standard handle colors are red for potential and black for current. A variety of colored handles, marker tags and tamper-proof covers that accommodate wire seals are available.

Switches are also available with single terminals, through bars, phase barriers and bases with hardware.

## No risk of electric shock

The patented safety knob gives operators the option of using a standard 5/16" nut driver to open or close the test switch. Fingers stay out of reach of current-carrying parts.

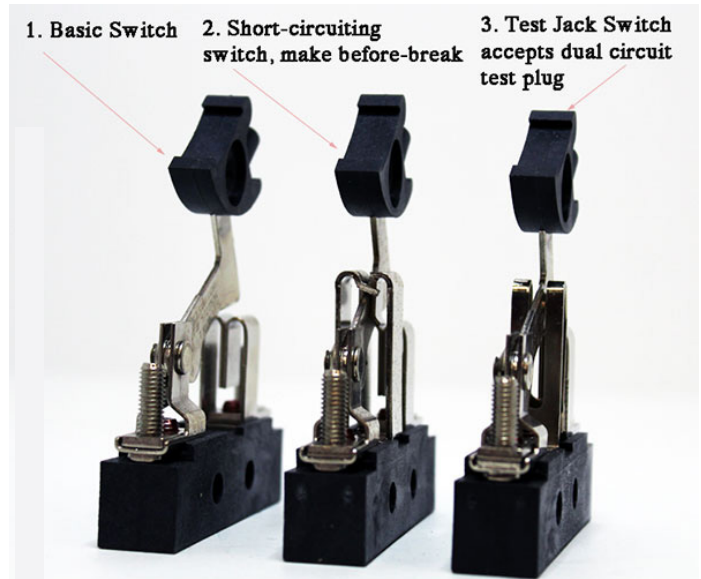
## No metal mounting plates and No Potting

Our exclusive footed barrier wraps around each test switch to form a fail-safe reinforced thermoplastic mounting plate.

## Back Connections

Back-Connected Test Switches have insulated studs that project from the rear of the switch. When the switch is mounted to the front of a panel, wiring can be connected to the rear-projecting studs at the back of the panel.

All three types of test switches — Basic switch, Short-circuiting (Shorting switch), and Test Jack switch — are available in the back-connected version. Clear or opaque covers come with all back-connected switches and are available as an option on front-connected switches.



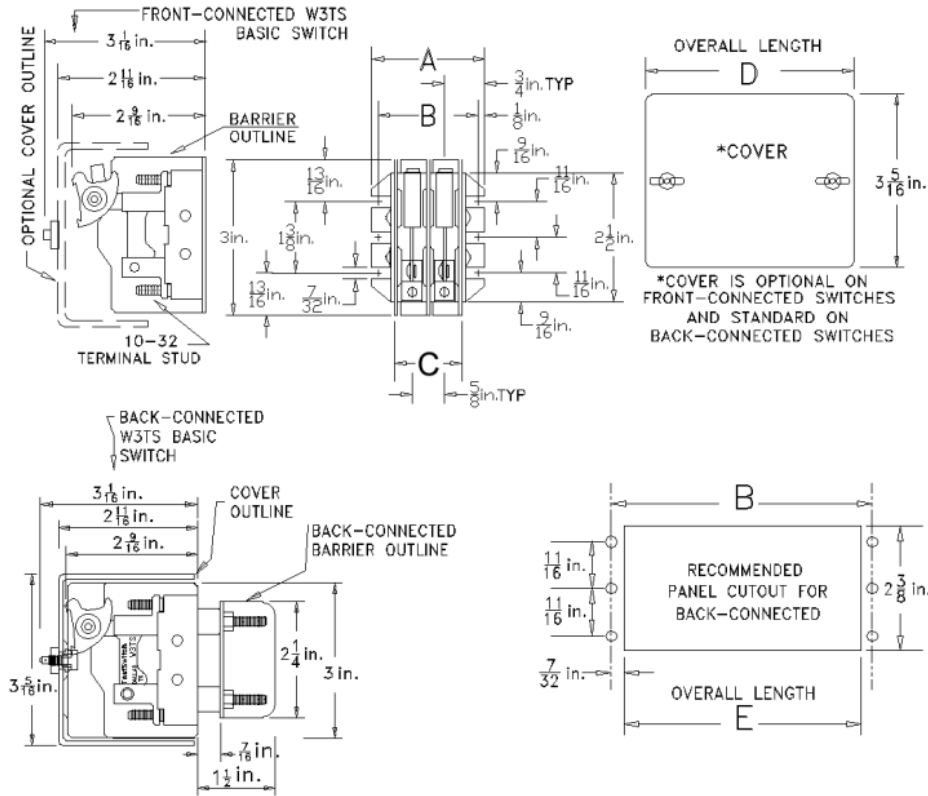
## DIN Rail Mounting

Our proprietary DIN Rail mounting is available on front connected switches.

## Industry Approved

All switches are IEEE Qualified, UL Qualified under Standard 414, ANSI Compliant, under C33.31; SVHC Compliant, under REACH; and RoHS Compliant as per EU Directive 2002/95EC.

## Specifications



**A:** Width of Switch Block overall, including Mounting Ears

**B:** Distance between centers of Mounting Ear slots

**C:** Width of Switch Block with Barriers (including Barriers automatically provided at each end of Switch Block, but not including Mounting Ears)

**D:** Width of Cover

**E:** Width of recommended panel cutout for Back-Connected Switch Blocks

**F:** Length of Mounting Rod

- Rated for up to 600 Volts and 30 Amperes.
- IEEE qualified under C37.90 – Standard for Relay and Relay Systems Associated with Electric Power Apparatus.
- UL qualified in the United States and Canada under Standard 414 (7th Edition) and Standard C 22.2 No. 115-M1989; reference UL file E189531.
- ANSI compliant under C 33.31 – Standard for Knife Test Switches.
- SVHC under REACH Compliant as per June 2012 Revision.
- RoHS Compliant as per EU Directive 2002/95/EC.

The Element Configurations Document shows the diagrams for the test switches and for standard groupings of test switches used for quotations and ordering.