

MICRO SWITCH™

Toggle Switch Line Guide



Full-Scale Offering. Clean Slate Engineering. Plus equal parts common sense and creativity. Each part in Honeywell Sensing and Control's (S&C) robust offering of toggle switches comes complete with the amenities you'd expect from the industry leader: superior assembly techniques for stronger performance, longer productivity, full-line flexibility and increased safety.

Honeywell S&C delivers optimal operator interface features and value-added qualities for aerospace, air transport, armored fighting vehicles and self-propelled transportation systems, as well as manufacturing companies. For example, only Honeywell drives in a center pendulum for ultimate stabilization. This rubber-bonded steel pin is then sealed to withstand most of the highest and lowest temperature challenges in the wettest and most parched environs.

FEATURES

TOGGLE SWITCHES

NT Series.

Features: Completely sealed switching chamber • IP67/IP68 • NEMA 3, 3R, 4, and 13 • Step-design case provides added space between terminals to prevent shorting • 2- and 3-position, maintained and momentary toggle action • Spring-loaded mechanism provides excellent tactile feedback • Features an "easy-start" threaded bushing and thermoplastic case • High impact strength, non-tracking case enhances electrical stability

Benefits: Meets a variety of electrical load requirements. Switching chamber is completely sealed in a Thermoset case. Used in a wide variety of industrial and commercial settings. Potential applications include aerial lifts, scissor lifts, truck mounted tele-handlers/cranes, construction equipment, agriculture equipment, material-handling equipment, factory-floor control units, and machine tool equipment manufacturers.

TL Series.

Features: Environment-proof sealing • Qualified to MIL-DTL-3950 • 1-, 2-, and 4-pole circuitry • Standard and pull-to-unlock levers • Silver alloy or gold-plated contacts • 2- and 3-position, maintained and momentary toggle action • Temperature range: -65 °C to 71 °C [-85 °F to 160 °F] • Completely sealed switching chamber • Step-design case provides added space between terminals to help prevent shorting • Available with IWTS (Integrated Wire Termination System), a wired, plug-in connection method

Benefits: Meets a variety of electrical load requirements. Switching chamber is completely sealed in a Thermoset case. Used in military or commercial aviation application where a sealed toggle switch is required. Potential applications include industrial machinery and equipment, military and commercial aviation, construction equipment, test instruments, agricultural machinery, process control, and medical instrumentation.

TS Series.

Features: 2- or 3-position, momentary and maintained action • 1- and 2-pole circuitry • Special on-on-on circuitry can be furnished • Solder, screw, or quick-connect terminals • Rated up to 20 A • Lever-to-bushing seal

Benefits: Generally used in low-cost commercial applications. Not recommended for use where sealing is critical. Potential applications include industrial machinery and equipment, military and commercial aviation, construction equipment, test instruments, agricultural machinery, process control, and medical instrumentation.

TW Series.

Features: Qualified to MIL-S-83731 • IWTS (Integrated Wire Termination System) • Saves space and weight • SPDT and DPDT circuitry • Temperature range: -65 °C to 71 °C [-85 °F to 160 °F] • Silver alloy or gold-plated contacts • Sealed bushing versions • Choice of 1/4 in or 15/32 in bushing • Color tab available on 15/32 in bushing

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The most powerful part: Possibilities.

Honeywell S&C offers one-stop convenience for every toggle switch need:

NT Series: Cost-effective, industrial-grade design meets NEMA and IP requirements. Features an “easy-start” threading bushing, plus optional panel stand off with O-ring seal, eliminating additional behind-the-panel hardware and seal.

TL Series: Military-grade design, environmentally sealed and qualified to MIL-S-3950. Featuring a large selection of circuitries, lever designs and electrical terminations, with silver or gold contacts.

TS Series: Used for manual operation, with special on-on-on circuitry available. TS series switches have 2- or 3-position, momentary and maintained action switches with 1- and 2-pole circuitry.

TW Series: Miniature military-grade design and environmentally sealed switches. A large selection of circuitries, electrical terminations, levers and bushing designs, with silver or gold contacts.



Toggle Switches	NT Series	TL Series
Type	industrial-grade toggle	military-grade toggle
Action	2- or 3-position momentary and maintained action	2- or 3-position momentary and maintained action
Levers	standard, locking, special design, tab	standard, special design, tab, paddle, no lever
Mounting	bushing 15/32 in	bushing 15/32 in
Termination	solder, screw, quick-connect	IWTS, solder, screw, quick-connect, leadwire
Approvals	UL, CSA, CE	UL, CSA, CE, qualified to MIL-S-3950
Circuitry	SPST, SPDT, DPST, DPDT 4PST, 4PDT	SPST, SPDT, DPST, DPDT 3PST, 3PDT, 4PST, 4PDT
Contacts	silver alloy	silver alloy, gold-plated



Toggle Switches	TS Series	TW Series
Type	commercial grade toggle	miniature toggle
Action	2- or 3-position momentary and maintained action	2- or 3-position momentary and maintained action
Levers	standard	standard, locking, special design, tab
Mounting	bushing 15/32 in	bushing 15/32 in or 1/4 in
Termination	solder, screw, quick-connect	IWTS, solder, screw, quick-connect, H58, T2
Approvals	UL, CSA, CE	UL, qualified to MIL-S-83781
Circuitry	SPST, SPDT, DPST, DPDT	SPST, SPDT, DPST, DPDT
Contacts	silver cadmium oxide	silver alloy, gold-plated

Benefits: Low profile switches and generally used where space behind the panel is limited. Used in control panel or equipment operation applications where a panel-mount switch with an environment-proof sealing rating is needed. Potential applications include industrial machinery and equipment, military and commercial aviation, construction equipment, test instruments, agricultural machinery, process control, and medical instrumentation.

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.

For more information about Sensing and Control products, visit www.honeywell.com/sensing or call +1-815-235-6847. Email inquiries to info.sc@honeywell.com

 **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.

 **WARNING**
MISUSE OF DOCUMENTATION

- The information presented in this catalogue 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.

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