

Precision Hermetic Switches



Klixon® hermetic miniature and sub-miniature snap action switches are ideal for extremely harsh and demanding environments as found in mission critical aerospace and military applications. Sensata's precision hermetic switches have been used for over 40 years in a wide range of systems, and can be found on virtually all commercial and military aircraft, as well as various space vehicles and satellites worldwide. Sensata offers custom configurations to meet specific application requirements.

Performance Features

- Hermetically Sealed
- Excellent Shock and Vibration Resistance
- Switching up to 4 amps or 10 amps
- Optimal for Logic Level Circuits
- Temperature Range -275°F to 450°F
- Lightweight
- 30 VDC



Advantages and Options

- Single or Multiple Poles
- Small, Axi-Symmetric Design for Robustness and Reliability
- Various Mounting Configurations for Custom Applications
- Sealed and Unsealed Pushbuttons
- Side Plate Designs for Narrow Width Applications
- Proven, Reliable Performance, Long Life
- MIL-S-8805 Qualification Option
- Engineering and Application Support

Applications

- Aircraft Landing Gear
- Helicopter Weight-on-Wheels
- Valve Position Indication
- Aircraft Engines and APU's
- Aircraft Environmental Control Systems
- Aircraft Flight Control Surfaces
- Bomb Racks and Ejectors
- Satellite Panel Indications
- Pilot Ejection Seats
- Missile Launchers
- Thrust Reversers

- Warhead Safety Circuits
- Weapon Firing Systems
- Weapons Trigger Switches
- Rocket Motor Controls
- Space Station Structural Indications
- Space Vehicle Stage Separation



(See back for more details)

Basics: Klixon® AT series switches are available as basic switches, basics with mounting brackets and actuators, or within switch packages. There are four kinds of AT series basic switches, each optimized for a particular set of performance characteristics:



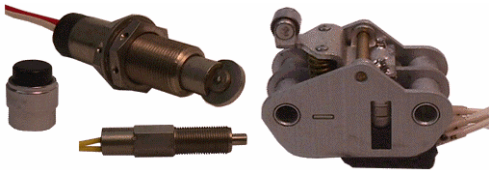
AT - The standard basic switch in the AT family. Switches up to 3 amps at 28VDC into resistive loads. Electrical life is 25K cycles, minimum. Lower currents extend life up to the minimum mechanical life of 100K cycles. The temperature range is minus 65°F to 275°F. Shock resistance is 200G.

3AT- Optimized for high ambient temperatures, with the upper limit extended to 450°F. Electrical and mechanical life are the same as the AT, while the maximum current is 1A at 28VDC into resistive loads.

4AT- Optimized for low ambient temperatures, with the lower limit extended to minus 275°F. Electrical life is 10K cycles for resistive loads at 3A, 28VDC. Mechanical life is 25K cycles. Space applications.

10AT- Optimized for higher current capability, with the upper limit extended to 4A at 28VDC into resistive loads. Logic level capability is maintained. Electrical life is 25K cycles. Mechanical life is 50K cycles. Members of this family are on the military qualified parts list (MIL-S-8805).

Packages: Packages are designed around one or more basic switches by including various electrical terminations, actuation means and physical housings. Hence, members of the AT family can be configured to interface to a given application. For example, our packages can incorporate actuators of various shapes and materials. Rollers can be used to optimize wear characteristics. Multi-pole switch packages are also available. Mounting can be accomplished either through a mounting surface via threaded bushings or against a mounting surface utilizing a side-plate design. Wiring can be supplied as flying leads of various lengths or via a variety of standard connectors.



We have hundreds of designs available, so please call if you need something that you don't see. We would also be pleased to consider new designs for custom packaging.

Approvals

- MIL-S-8805
- Space Station
- Various Aerospace, Weapons, and Military & Commercial Aircraft OEM's



KLIXON

For more information contact: Tel: (508) 236-3287; Fax: (508) 236-1598
 e-mail: klixonmail@list.sensata.com website: www.sensata.com

Important Notice: Sensata Technologies (Sensata) reserves the right to make changes to or to discontinue any product or service identified in the publication without notice. Sensata advises its customers to obtain the latest version of the relevant information to verify, before placing orders, that the information being relied upon is current.

Sensata Technologies assumes no responsibility for infringement of patents or rights of others based on Sensata Technologies applications assistance or product specifications since Sensata does not possess full access concerning the use or application of customers' products. Sensata Technologies also assumes no responsibility for customers' product designs.