

Klixon® Basic AT Series Switches

- Meet the demands of low-level current switching applications
- Various mechanical and electrical configurations available as standard or custom configurations
- Actuation plungers of various shapes and materials available
- Multi-pole switch package options
- Mounting via threaded brushings or side-plate design
- Wiring can be supplied as flying leads or via a variety of standard connectors



Federal Aviation Administration (FAA) part approvals for the Klixon 10AT series

Due to its broad performance envelope, small size, and ability to be easily incorporated into a wide variety of packages, this is our most popular family of precision hermetic switches.

Klixon AT series switches are available as basic switches, basic switches with mounting brackets and actuators, or as switch packages. Packages are formed by configuring various electrical terminations, actuator means and physical construction around one or more basic switches.

Since these sources are still far from exhaustive, please call if you need something you don't see. (There are too many designs to include here.) We would also be pleased to consider new designs for custom packaging.

Within this family there are four basic switches: the AT, the 3AT, the 4AT, and the 10AT. Each has been optimized for particular performance characteristics and is capable of meeting the demands of low-level current switching applications.

AT Series

The AT basic switch is the standard device in the AT family, capable of switching up to **3 amps at 28 VDC** into resistive loads. See the [chart](#) for inductive and lamp loads. Electrical life at these loads is **25K cycles**, minimum. Lower currents extend life up to the minimum mechanical life of 100K cycles. [Performance chart comparing switches](#)

3AT Series

If your application requires a device which operates at **higher ambient temperatures**, then consider the 3AT. Electrical and mechanical life are the same, while the maximum current level is **1A at 28 VDC** into resistive loads. [Performance chart comparing switches](#)

4AT Series

This device is designed to operate at **temperatures lower**

than the standard AT switch. Accordingly, this switch finds much use in **space applications**. Electrical life at **3A, 28VDC** is 10K cycles for resistive loads. [Performance chart comparing switches](#)

10AT Series

This device is designed to operate at **temperatures lower than the standard AT** switch. Accordingly, this switch finds much use in **space applications**. For **higher current capability than the standard AT** switch, consider the 10AT. The maximum current has been extended to **4A at 28VDC** into resistive loads. At this load, electrical life is 25K cycles and mechanical life is 50K cycles. Additionally, members of the 10AT family are on the **military qualified parts list** (MIL-S-8805). [Performance chart comparing switches](#)

	Standard Current	High Temp	Low Temp	High Current
Actuation Characteristics	AT1-1	3AT2-1	4AT10-1	10AT117 10AT51
Maximum Actuating Force (STP)	20 oz.	20 oz.	28 oz.	30 oz.
Minimum Release Force (STP)	4 oz.	4 oz.	1 oz.	4 oz.
Maximum Pretravel	.009"	.009"	.009"	.009"
Maximum Movement Differential	.003"	.003"	.003"	.005"
Minimum Overtravel	.003"	.003"	.003"	.003"
Overtravel Stop	No	No	No	No
Maximum Force on Actuator	5 lb.	5 lb.	5 lb.	5 lb.

Maximum overtravel on Klixon AT series switch modules is that produced by a 5 pound force on the actuator button. Further overtravel can damage the switch.