

OEM APPLICATIONS



SWITCH TEST APPLICATIONS



Application Examples

- Automotive switch test
- Cell phone keypads
- Membrane keypads
- Valves, sensors and relays
- PC Keyboards
- ATM keypads

The SMAC Advantage

- Verify hysteresis and switch differential
- Accurately simulates human movement profiles
- Combined force and position measurement
- High speed life testing
- 1,000,000 cycles in 8 hours
- QA reporting functions to verify 100% test



THE SMAC TECHNICAL EDGE:

Force & Position Measurement

Force feedback from coil provides closed loop data which can be constantly monitored. Position is constantly monitored with encoder resolution options of 5, 1 and 0.5 micron.

Repeatability & Flexibility

Low static & dynamic friction guarantee consistent results
Life test and quantifiable performance test in the same package

Long Life

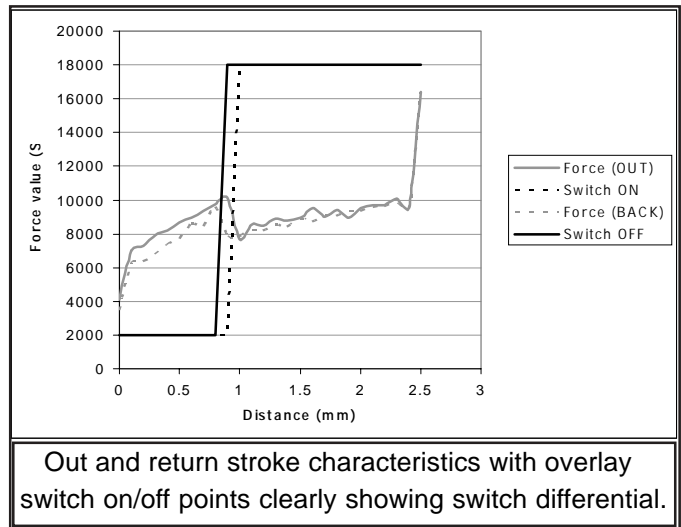
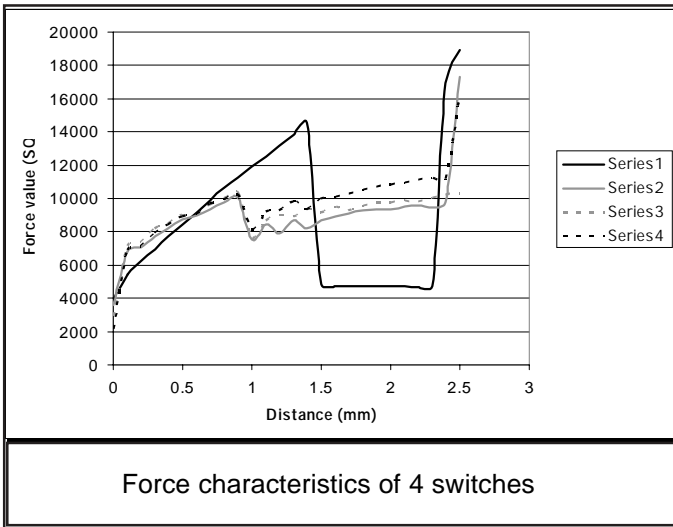
Precision, over sized guides
Low wattage, low heat, burn out proof coils

Controllable Working Profile

Programmable force, acceleration and velocity ensures total control over test parameters.

Reporting Functions

Digital and analogue outputs providing statistical QA analysis
Switch contacts can be connected to controller inputs to determine switch make/break
Switches sorted by performance parameters dictated by user -fail/-pass/pass/+pass/+fail



Component type	Actuator used	SMAC advantage	Old technology replaced
Micro switch	LAL20-010	Combined qualitative & life test	Mechanical cam for life test and load cell
Cell phone keypad	LAL20-010	LAL20 matches keypad pitch profile	New application
Automobile switchgear	LAL35-050	Verifies position and force parameters	New application
Aerosol valve	LAL90-050	Part sorting of faulty valves	No QA test carried out
Household light switch	LAL90-050	100% test data	Air cylinder calibrated by load cell

