

What is Essex Billion Cycle Switch Technology™?

A unique piezoelectric switch technology developed by Essex Electronics, Incorporated. This innovative technology yields superior performance that far exceeds all other switching technologies (mechanical, conductive rubber, membrane and even other piezoelectric technologies). Traditional switches can fail after 5 million cycles. Essex piezoelectric switching elements have been tested over **1 Billion cycles** without failure at a rate of 1 Million cycles per day (11 times per second, 24 hours a day), 7 days a week, 365 days a year, for over 3 years. If an Essex switching element were pressed once every second, it would still function normally more than thirty years later.

Piezoelectric switches generate a charge or voltage simply by applying force to it, and do not require an actual physical movement. The piezoelectric (pressure electricity) effect is a property of materials like quartz, Rochelle salt and manufactured ceramics such as Lead Zirconate Titanates (PZT).

Essex Piezoelectric Switches....There's nothing else like them.