Programmable Linear Position Sensors

Novotechnik U.S. introduces the LS1 Series of non-contact linear position sensors. These sensors are based on Novotechnik's Novopad, a non-contacting inductive technology, are insensitive to magnetic fields and have no mechanical sensor track. Models with and without return spring are available.

The LS1 Series feature programmable end-points using easily accessible push buttons on top of the sensor. Programming is achieved using a signal processor integrated into the sensor and two LED programming status indicators. An output range can be programmed either the same as, or independent of, actual travel length by setting minimum and maximum output levels. Current or voltage output levels can be programmed separately from position programming.

Key specifications for the LS1 Series include 25 to 100 mm measurement range for the return spring version and 25 to 200 mm for rod only version. Resolution is to 0.05 % and repeatability to less than 0.05%. Four output options are available: 0.1 to 10 V, 4 to 20 mA, 10 to 0.1 V and 20 to 4 mA. Sensor life is >100 million movements.

LS1 Series sensors are absolute sensors and retain their values even after power interruptions–including programming. They have a compact design profile of 0.70 in x 0.70 in.

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[1] http://www.novotechnik.com