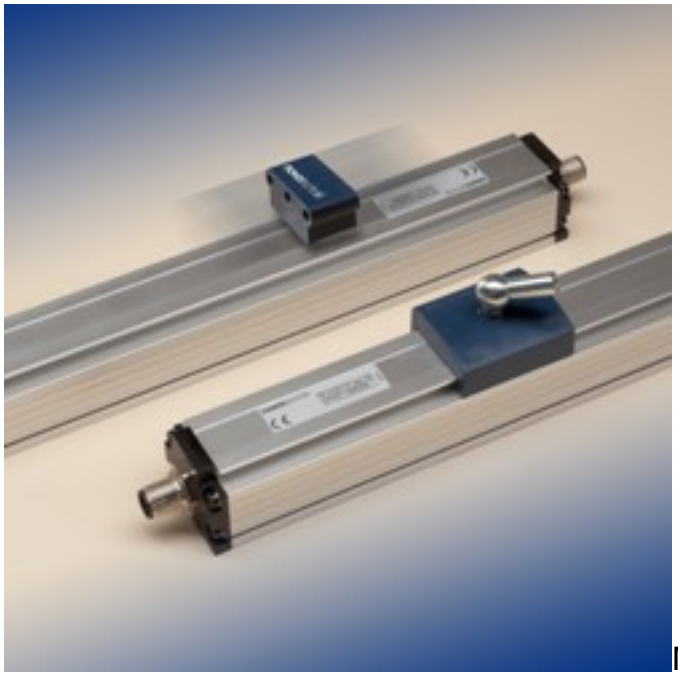
Adjustment-Free Magnetostrictive Position Sensors



Novotechnik, U.S. introduces the TP1 Series of magnetostrictive position sensors that provide non-contact, absolute, linear position. These sensors meet all specifications without the need for time-consuming set-point adjustments– also referred to as null and span.

The TP1 Series is plug-in compatible with other similar sensors and is offered in standard measurement ranges of 50 to 4,500 mm. Other key specifications include update rate of 62 µsec, absolute linearity to within ± 0.02 % of F.S, 16-bit resolution and sealed to meet the IP 68 standard.

Output versions of the TP1 include analog, start/stop, SSI, Quadrature and high-flexibility 48-bit DyMoS that also provides true velocity.

Analog outputs include 0 to 10 V, 0 to 20 mA, 4 to 20 mA and -10 to +10 V as both minimum to maximum and vice versa. Analog output version also features programmable start and end-stop points. Quadrature digital output features an initialization phase upon power-up that eliminates the need for a reference drive. Serial Synchronous output interface provides 24, 25 or 26-bit output depending on model.

Up to two independent magnetic markers can be used on select models of the TP1 Series. Injection molding, among other applications, have found this economical by controlling injector and platen/mold with two simultaneous output signals from a single position sensor.

Both captive sliding and free-floating magnetic marker versions can be used with

the TP1 sensors.

Novotechnik U.S. Inc.
508-485-2244; www.novotechnik.com [1]

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