

Universal Linear Scale



NEW !

We produce and deliver positions transducers characterized by very high degree of protection against influence of the environment.

▲ Dust proofness

Absolute dustproof. Dust, cutting chips and swarf have no influence to sensor operation.

▲ Watertightness

Error-free operate even immersed in the water and they are therefor imperious also to oil and coolant.

▲ Robustness

Non-magnetic stainless steel. It is possible to cut the measuring bar without loss of its functionality. All the parts of the scale are corrosion-proof.

▲ Versatility

Resolution from 0,001 mm to 0,5 mm, max. travel speed up to 7 m/sec enable sensor to be used both with machine tools and with other industrial machinery.

▲ Low cost

Comparable with the price of cheap optical scales but with extraordinary high sturdiness and protection grade.



Universal Linear Scale

The SPIRO position sensor is designed for accurate position measuring on machine tools, manipulators and other industrial machinery. Its sturdy structure and high degree of protection enable it to be used in the most difficult working environments.

The sensing device consists of a scale in the form of a stainless steel rod with a sliding scanning head- rider. The scale can be built in-to the supporting casing. The SPIRO position sensor is an inductive resolver-type sensing device. The measuring rod includes a coil (spiral) of ferromagnetic material with a 2 mm lead. The rider has an excitation coil and two sensing coils. The excitation coil is powered by an alternating current. During the rider's movement alternating voltages are induced in sensing coils, the amplitude of which changes according to sine and cosine dependencies. These voltages are directly converted to digital form. The Siro digital sensor provides information about position in the same form as the incremental optical sensor, i.e. two lines of right-angle pulses in a square-shape and zero pulse.

Specifications

Material	: Stainless Steel Rod
Measuring Type	: Inductive Magnetic
Measuring Length	: 0 - 2 m, 2—6 m in Support profile
Accuracy	: +/- (0,01 + 0,01xL) (mm) L(m)
Friction Force	: 10 N
Resolution	: 0,001 mm to 0,5 mm
Supply Voltage	: +5V
Supply Current	: 200 mA Max
Travel Speed	: 3 m/sec standard, 7 m/sec spec. version
Working Temp	: 0 to 45 C
Storage Temp	: -10 to 40 C
Protection Grade	: IP 67
Output	: Quadrature Pulse Train, RS422
Max. Cable Length	: 20 m (Standart 3m)

İES Elektronik Makina San. İç ve Dış Tic Ltd.
 Atatürk Mh. Komsan Üstü Yolu No: 4/220
 34307 Küçükçekmece İstanbul Türkiye
Tel : +90 212 4834011
Fax : +90 212 4834012
e-mail: info@ies.com.tr
Web : www.ieselektronik.com

