

MOVEMENT SENSOR MODEL SD 3



OUTSTANDING CHARACTERISTICS

- Accuracy
- Prompt response
- Measures movement and lineal displacements
- Rugged and non- sensitive to vibrations



DESCRIPTION

TECMES movement sensors model SD3 resolve multiple problems of dynamic and static measurement with high accuracy even in harsh environments.

Three symmetric spools wrap the core linked to the gauge shaft. When the core is activated with an electrical signal it induces tension to the spools.

If the core is in its central position, the power output is null; when the gauge moves (together with the core) a differential tension is produced that varies proportionally to the distance.

The principle LVDT (Linear Variable Differential Transformer) in TECMES SD3 sensors combines high accuracy with reliability. Its excellent repeatability gives a stable signal with linearity of 0.2%.

SD3 sensors are manufactured under certified norms, under rigorous quality controls that ensure the user an excellent performance.

APPLICATIONS

TECMES SD3 Sensors provide high accuracy signals for movement measurement or lineal displacements. Signals from diverse sensors can be integrated in order to control the depth of sheets, fibers, glass, metals, etc.

SPECIFICATIONS

<i>Measurement Ranges:</i>	0- +/-2; 0- +/-6; 0- +/-20 mm
<i>Linearity:</i>	+/- 0,2% in full scale
<i>Maximum Operational Temperature:</i>	100°C
<i>Excitation:</i>	5 kHz; 5 V
<i>Output:</i>	100 mV
<i>Mounting:</i>	Endings with Screws, turn M 18 x 1,00
<i>Connection:</i>	Output cable 2 meters long
<i>Maximum Distance:</i>	Up to 300 m
<i>Body Material:</i>	Stainless Steel AISI 420
<i>Nucleus Material:</i>	Stainless Steel AISI 420
<i>Shaft Material:</i>	Stainless Steel AISI 316

Range	∅	Body and Assembly thread length	Palpador Length	Total Length
+/-2	24 mm	189	18	207
+/- 6	24 mm	203	26	229
+/-20	24 mm	300	54	354

Assembly over M20 x 2 with 2 threads

Request for other specification

Made in Argentina

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