

鎖模力感測儀

Strain Ring

Type: SML – RS



說明:

Description:

特殊研發預壓式應變規，用於量測表面應變，其量測是瞬間量測，不需任何校正。

Specially developed Strain Gauges are pressed onto the measured surface, the measurement is instantly without any calibration needed.

被量測工件表面不需經過化學清潔或機械處理。

The surface at the measuring area shall be free of layers of materials other than the measured material (e.g. rust, color, scale, etc.). It has not to be chemically clean or mechanically treated.

預壓式應變規的零點偏移，感測儀在安裝後從不會在零點，這種現象不會影響它的靈敏度或訊號放大，整合放大器具有偏移歸零功能的特色。

The **Zero-offset** of the pressed-on strain-gauges is after mounting never at zero. This does not influence the sensitivity or signal amplitude. The integrated amplifier features reset function.

感測儀非常容易安裝，只需用 3 牛頓·米的扭力起子將它固定在工件表面即可。

The **mounting** is very easy with a torque screw driver. The sensor is evenly braced with two screws around the cylinder with a given 3 Nm torque.

對於機器控制，我們的感測儀整合堅固的工業用放大器，具有歸零功能。

For **machine-control**, our sensor with integrated rugged and industrial strain-gauge amplifiers with reset deliver directly a 10V output signal equaling e.g. 1000µε.



技術資料:

Technical Data:

應變規係數	2.0 (±0.5 %)
Gauge factor	
量測範圍	0~1000µε
Measuring range	
線性	< 0.5% FS
Linearity	
遲滯	< 0.2% FS
Hysteresis	
重覆性	< 0.1% FS
repeatability	
2 x1/4 橋阻值	標準 350 Ω
Resistance	
工作環境溫度	-20 ~ +65°C
Operating temperature	
最大供應電壓	9 V
Max. voltage	

- 軸類軸向和歌林柱的應變量測及控制非常容易。

Very easy strain measurement and control on axils, shafts and tie-bars.

- 將應變感測環套鎖在軸上即可量測表面不需任何處理。

Brace Strain-ring around a shaft and measure No surface treatment necessary

- 精度 0.5 % 不需校正，自動彎曲補償。
<0.5% accuracy – without calibration, bending compensated.

- 適合模具保護和一般應變量測。

For machine-control, Mold-and tool protection or general strain measurement.

- 應變規不需再黏貼，也不用錫焊，並且可以重覆使用。

Strain gauges not bonded anymore – thus multiple use and no soldering!

- 理想的週期性量測如塑膠射出機壓鑄機壓床等的鎖模力量測。

Ideal for cyclical applications like clamping force measurement on plastic, die casting machine, presses etc..

感測儀可接顯示器 SML-DM4DB 或 DM1D 做機器調適。也可接放大器做鎖模力線上監控自動模控制。

The sensor can be used together with strain gauge amplifier or digital monitor DM4DB, DM1D



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