



SPB-TS & SPB-TT

Linear Encoder

Introduction

The Newall SPB linear encoders are specifically designed to meet the strenuous demands of the press brake industry. Newall's cost-effective encoders offer unsurpassed durability with high resistance to shock, vibration and contamination.



Features

- Up to $\pm 3\text{mm}$ allowance for radial movement due to press brake deflection.
- Inductive system with no optics to fail or become contaminated
- Available with single or periodic reference marker
- Patent pending self-aligning mounting mechanism
- TTL differential quadrature output
- Simple installation; No moving parts
- Fully sealed, IP67 rating
- Withstands shock and vibration



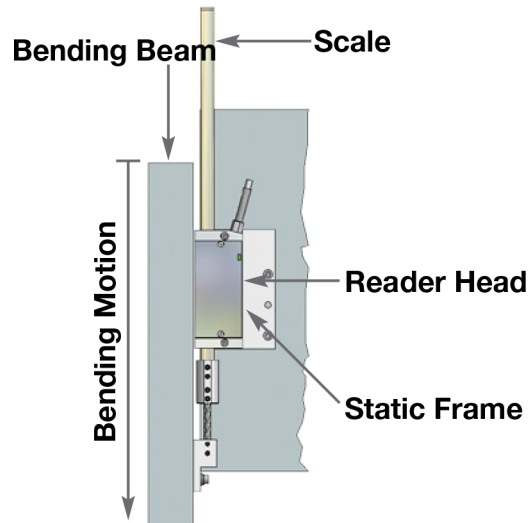
SPECIFICATIONS

Accuracy	$\pm 10\mu\text{m}$
Resolution	1 μm or 5 μm
Output Type	TTL Differential Quadrature
Maximum Traverse Speed	60m/minute
Maximum Acceleration	100 ms^2 (10g)
Power Supply	5VDC $\pm 5\%$ @ 85mA
Reference Markers	SPB-TS = Single SPB-TT = Periodic (every 12.7mm)
Moving Force	< 5N
Environmental Rating	IP67, fully submersible (IEC 529)
Shock (11ms)	980 ms^2 (100g) - (EN 60-068-2-27)
Vibration (55-2000Hz)	294 ms^2 (30g) - (EN 60-068-2-6)
EMC Compliance	BS EN 50081-2 and BS EN 50082-2
Storage Temperature	-4° to 158°F (-20° to +70°C)
Operating Temperature	32° to 131°F (0° to +55°C)
Overall Scale Length (with single end mount bracket)	Measuring Length + 12.05" (306mm)
Overall Scale Length (without single end mount bracket)	Measuring Length + 10.55" (268mm)
Mounting Alignment Tolerance	$\pm 3\text{mm}$ (Press closed)



DIMENSIONS

Dimensions in mm [Inch]



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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

CONTACT US

Americas

+1 614-771-0213
sales@newall.com

Europe, Middle East & Africa

+44 (0)116 264 2730
sales@newall.co.uk

Asia Pacific

China
+82 21 2306 1560
sales@newall.com
Taiwan
+886-2-27602006 #2570
sales@newall.com