

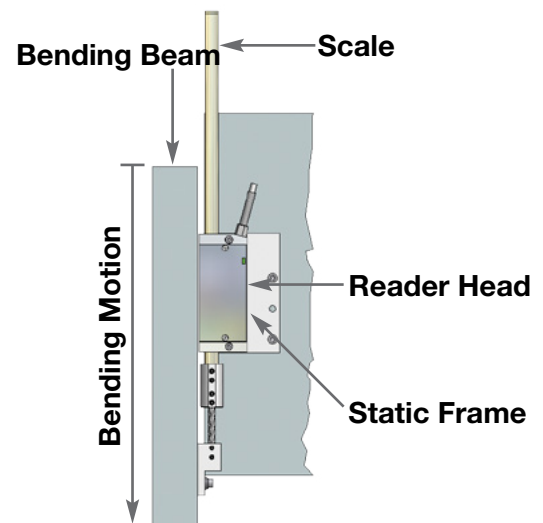
The Newall SPB linear encoders are specifically designed to meet the strenuous demands of the press brake industry. Newall's cost-effective encoders offer unsurpassed durability with high resistance to shock, vibration and contamination.

### FEATURES INCLUDE:

- 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	SPB-TS AND SPB-TT
Accuracy	$\pm 10\mu\text{m}$
Resolution	$1\mu\text{m}$ or $5\mu\text{m}$
Output Type	TTL Differential Quadrature
Maximum Traverse Speed	60m/minute
Maximum Acceleration	$100\text{ms}^{-2}$ (10g)
Power Supply	5VDC $\pm 5\%$ @ 85mA
Reference Markers	SPB-TS = Single SPB-TT = Periodic (every 12.7mm)
Moving Force	$< 5\text{N}$
Environmental Rating	IP67, fully submersible (IEC 529)
Shock (11ms)	$980\text{ms}^{-2}$ (100g) - (EN 60-068-2-27)
Vibration (55-2000Hz)	$294\text{ms}^{-2}$ (30g) - (EN 60-068-2-6)
EMC Compliance	BS EN 50081-2 and BS EN 50082-2
Storage Temperature	$-4^{\circ}$ to $158^{\circ}\text{F}$ ( $-20^{\circ}$ to $+70^{\circ}\text{C}$ )
Operating Temperature	$32^{\circ}$ to $131^{\circ}\text{F}$ ( $0^{\circ}$ to $+55^{\circ}\text{C}$ )
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)



Manufactured & Designed in the  
**UNITED KINGDOM**

For more information about this or any of our products  
please contact us at [sales@newall.com](mailto:sales@newall.com) or visit [www.newall.com](http://www.newall.com)