

Linear Feedback Encoders for Press Brake Applications

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.

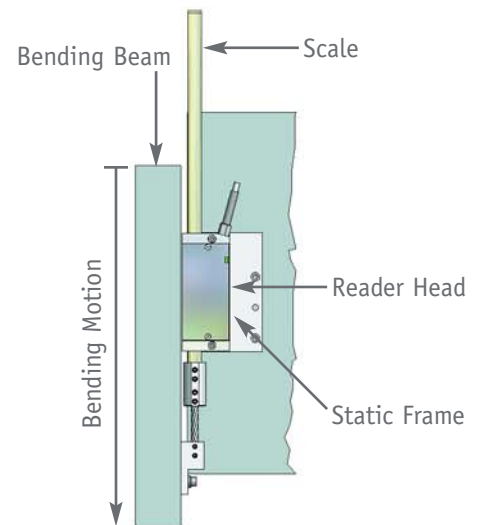
- Up to $\pm 3\text{mm}$ allowance for radial movement due to press brake deflection
- Inductive system with no optics to fail or become contaminated
- Available with single or periodic reference marker
- Patent pending self-aligning mounting mechanism
- RS422 differential quadrature output
- Simple 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	RS422 Differential Quadrature
Maximum Traverse Speed	60m/minute
Maximum Acceleration	100ms^{-2} (10g)
Power Supply	5VDC $\pm 5\%$ @ 85mA
Reference Markers	SPB-TS = Single Point SPB-TT = Periodic (every 12.7mm)
Moving Force	< 5N
Environmental Rating	IP67, fully submersible (IEC 529)
Shock (11ms)	980ms^{-2} (100g) - (EN 60-068-2-27)
Vibration (55-2000Hz)	294ms^{-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 $+70^{\circ}\text{C}$)
Operating Temperature	32° to 131°F (0° 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)



BEI NEWALL MEASUREMENT SYSTEMS
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