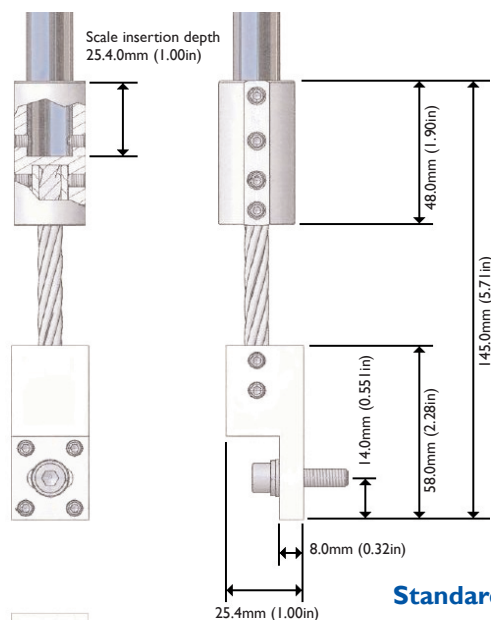


# SPB-TT and SPB-TS Linear Encoder

## For Pressbrake applications

# NEWALL

The Newall SPB encoders are specifically designed to meet the strenuous demands of the Pressbrake industry offering unsurpassed resistance to environmental conditions such as shock, vibration and contamination.



### Construction

- Inductive system with no optics to fail or become contaminated
- No internal moving parts
- Fully sealed reader-head to IP67
- Stainless steel scale construction
- Patented self aligning mechanism catering for large mounting tolerances
- Unsurpassed Shock and vibration
- Simple installation
- Setup LED on SPB-TS encoder

### Standard Measuring Lengths

200mm (7.87"), 250mm (9.84"), 300mm (11.81"),  
350mm (13.77"), 400mm (15.74"), 450mm (17.71"),  
500mm (19.68"), 550mm (21.65")

Consult Newall for other lengths.

### Reference Marks

SPB-TS has up to eight reference marks separated by 50mm (2") of travel from the mounting end. The desired reference mark is selected by rotating the scale to bring the reference within the scale in-line with the sensor encapsulated within the reader-head.

SPB-TT provides periodic reference marker pulses every 12.7mm regardless of scale rotation.

### Specification

	SPB-TS and SPB-TT
Accuracy	+/- 10µm
Resolution	1µm or 5µm
Output Type	RS422 Differential Quadrature
Max. Traverse Speed	60m/min (198ft/min)
Max. Acceleration	100m/s <sup>2</sup> (10g)
Power Supply	5Vdc +/- 5% @ 85mA
Reference Mark	SPB-TS = User Selectable 1 from 8 SPB-TT = Periodic (12.7mm)
Moving Force	<5N
Sealing	IP67
Shock EN 60-068-2-27 (11ms)	980mS <sup>2</sup> (100g)
Vibration EN60-068-2-6 (55... 2000Hz)	294mS <sup>2</sup> (30g)
EMC	BS EN 50081-2 & BS EN 50082-2
Temperature (Storage)	-20 to +70°C
Temperature (Operation)	0 to +55°C
Measuring Length including Single-End Mount	Travel + 306mm (12in)
Measuring Length without Single-End Mount	Travel + 268mm (10.5")
Mounting Alignment Tolerance	+/- 3mm (Press closed)

### Installation

