WLDT *Linear Transducer*

Applications:

- Civil Engineering Projects
- Positional Control Systems
- R&D testing
- Lifting or spreader beam testing
- Aerospace system integration
- Hydraulic or jacking systems

The Straightpoint range of Linear Displacement Transducers are supplied with our SA700C wireless transmitter and for the first time allow distance or length measurement alongside load from a SP load cell to be measured and logged.

Available in stroke length from 25mm / 1" to 200mm / 8" these sensors connect to the SP SW-MWLC software and can accurately measure displacement or movement in a number of applications.

The WLDT is a robust, absolutely linear position/displacement transducer and is inherently frictionless. Because of this they have a mtbf in excess of 100 million cycles when properly used.
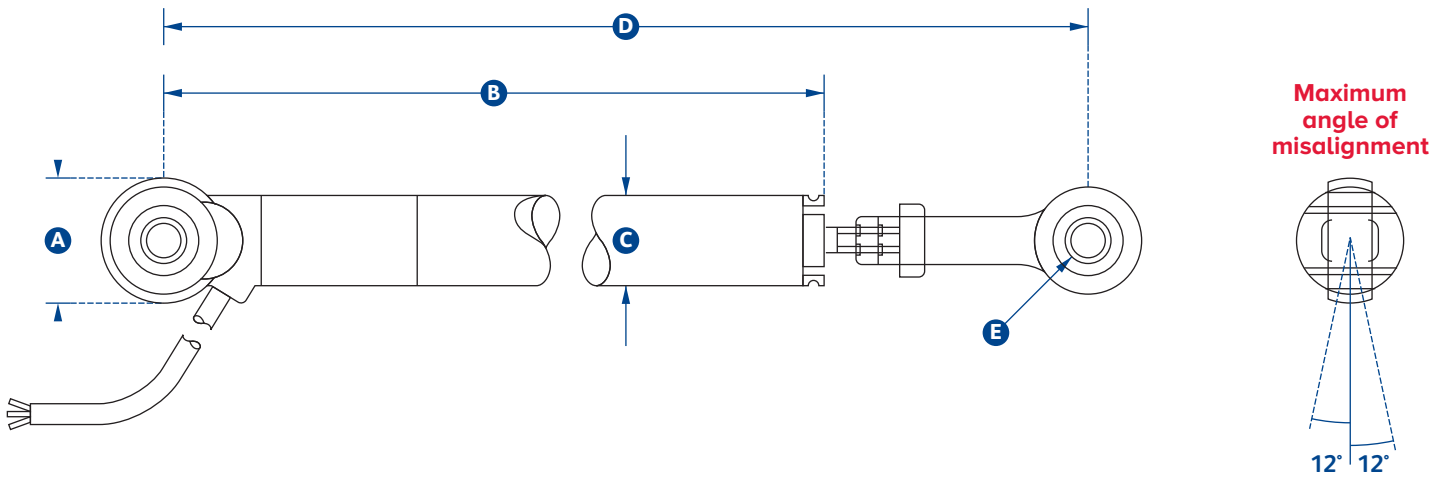
An eye at each end of the transducer enables the sensor to be quickly and accurately positioned in place and is supplied pre-calibrated to third party reference standards.

Maximum angle of misalignment

12° 12°

Transducer Specifications (SA700C separate data sheet)								
Electrical Stroke	25mm	50mm	75mm	100mm	125mm	150mm	175mm	200mm
	1"	2"	3"	4"	5"	6"	7"	8"
Linearity (±%)	0.25	0.25	0.15	0.15	0.15	0.15	0.15	0.15
Resolution	0.05mm	0.1mm	0.1mm	0.1mm	0.1mm	0.2mm	0.2mm	0.2mm
	0.002"	0.004"	0.004"	0.004"	0.004"	0.008"	0.008"	0.008"
Hysterisis and Repeatability	<0.01mm							
	<0.0004"							
Operating Temperature	-30°C to +100°C							
	-22°F to +212°F							
Environmental Protection	IP50 (IP66 POA)							
Cable Length to SA700C	1 metre							
	39"							
Dimension A	Ø 17mm							
	Ø 0.67"							
Dimension B	110.5mm	135.5mm	160.5mm	185.5mm	210.5mm	235.5mm	260.5mm	285.5mm
	4.35"	5.33"	6.32"	7.30"	8.29"	9.27"	10.26"	11.24"
Dimension C	Ø 13mm							
	Ø 0.51"							
Dimension D (fully retracted)	173.6mm	198.6mm	223.6mm	248.6mm	273.6mm	298.6mm	323.6mm	348.6mm
	6.83"	7.82"	8.80"	9.79"	10.77"	11.76"	12.74"	13.72"
Dimension E	Ø 5mm							
	Ø 0.197"							