

String Displacement Sensor DSS-1500

- String potentiometer style;
- Suitable for harsh environments such as crash test;
- Small size, easy install (mounting block supplied);
- Measurement range 1500mm;
- Wire max. tension 7~14N; Acceleration up to 58g;
- Anti-Shock $\geq 100g$.

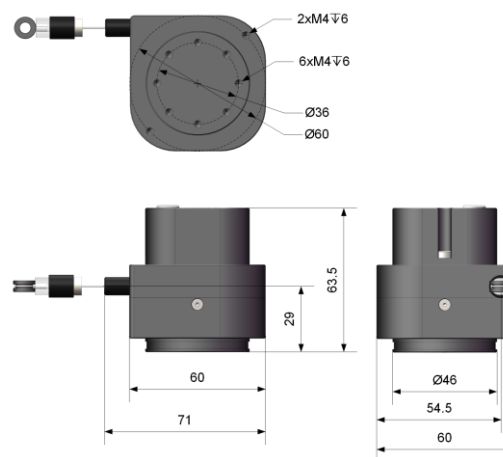


DSS-1500 contains an adjustable potentiometer inside and a coaxially designed steel wire coil. When the steel wire stretches or contracts, the resistance of the potentiometer changes accordingly. Its unique internal design keeps the displacement and output voltage constant. A good linear relationship is achieved. The steel wire is made of 304 stainless steel and is designed with high tension. It is very suitable for high-speed measurement applications, such as parts moving during car crash test, and status monitoring of aviation airborne equipment.

Specification (5V, 25°C)

Name	Unit	Value
Range	mm	1500
Tension force	N	7~14
Wire diameter	mm	0.6
Non-Linearity	%FS	$\leq \pm 0.1$
Signal smoothness	%	≤ 0.1
Resistance	Ω	5k $\pm 10\%$
Wire Acceleration	g	58 max.
Max. Excitation	VDC	20
Temp. factor	ppm/°C	± 20
Anti-Shock	g	>100
Insulation Res.	M Ω	>100
Opera. Temp.	°C	-45~+105
Mechanical Life	Cycle	1million
Material	/	Al. Alloy
weight	grams	330
Dimension	mm	63.5 \times 71 \times 60

Dimension:



Assembly with Fixture:



Cable Define:

Red	Excitation+
Black	Excitation-
Green	Signal+
White	Signal-
Shield	Connector Case if have

Cable length default 8m;

Including mounting fixture.

Extend wire can be required.