

String Displacement Sensor DSS-35

- String potentiometer style;
- Suitable to vehicle crash test dummy;
- Small size, easy install (mounting block supplied);
- Measurement range 35mm;
- Wire max. tension 4.4N, Acceleration up to 70g;
- Anti-Shock $\geq 100g$.



The displacement sensor DSS-35 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 knee displacement of car collision dummies, knee ligament stretching of car pedestrian protection legs, and status monitoring of aviation airborne equipment.

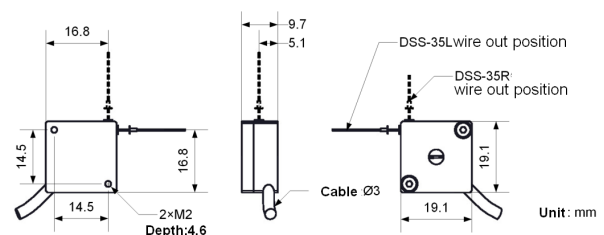
Specification (5V, 25°C)

Name	Unit	Value
Range	mm	35
Tension force	N	4.4 max.
Wire diameter	mm	0.4
Non-Linearity	%FS	± 1
Signal smoothness	%	0.1
Resistance	Ω	$5k \pm 10\%$
Wire acceleration	g	70 max.
Excitation	VDC	5~15
Temp. factor	ppm/°C	± 300
Anti-Shock	g	>100
Insolation Res.	M Ω	>100
Opera. Temp.	°C	-45~+105
Mechanical Life	cycle	1million
Material	/	Al. Alloy
weight	grams	15
Dimension	mm	19.1×19.1×9.7

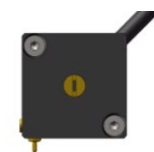
Wire length default 0.5m;

Including mounting fixture.

Dimension:



Different Types are optional:



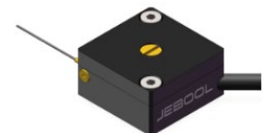
DSS-35L



DSS-35L



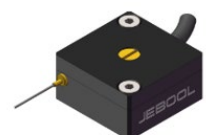
DSS-35R



DSS-35R



DSS-35U



DSS-35U