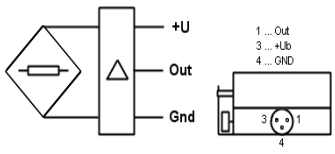
Precision-thread-tension-sensor
FSS 100/50/25

Small highly sensitive sensor for in line tread tension measurement. It is very dust resistant and durable. A special safety fork protects the sensor against overloading by very high thread forces.

Typ.	FSS 100	FSS 50	FSS 25	
nominal load (thread-tension)	100	50	25	cN
output on nominal load [*1)]		4,5 ± 0,1		V
offset at no load [*1)]		0,5 ± 0,05		V
measurement error [*2)]		<0,1		cN
temperature error at no load		<0,1		% v.E.
temperature senitivity error		<0,1		% v.S.
temperature range [*3)]		+20…+60		℃
supply voltage		+9,5 … 12,5		V
power consumption		ca. 5		mA
frequency of response		ca. 1200		Hz
load resistor		>50		kΩ
Enclosure [*4)]		IP54		
		v.E. – of final value, v.S. – of current value		
		April 2008 – subject to change		

[*1)] calibration, once calibrated value is long-term stable
[*2)] without friction
[*3)] +5℃…+70℃ without temperature compensation
[*4)] also available in better protection class and / or resistant for chemicals

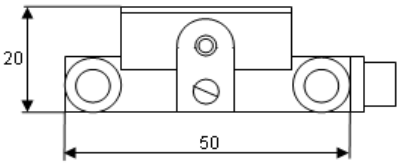


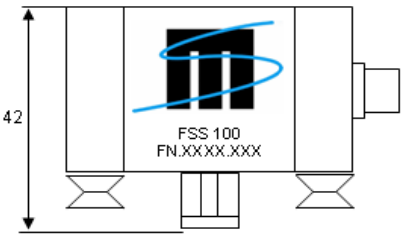
Connections:

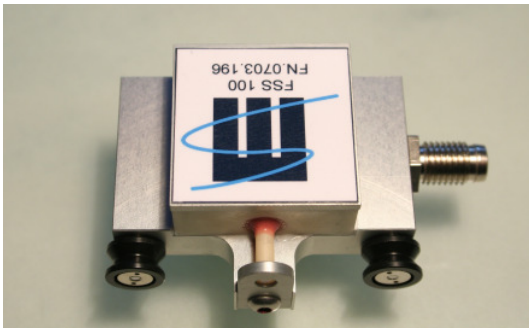
Pin 2	Out
Pin 3	+Ub
Pin 4	GND

Order information:

FSS 100	Art.-Nr. 6101.01-5.01
FSS 50	Art.-Nr. 6101.02-5.01
FSS 25	Art.-Nr. 6101.03-5.01







Optional accessories:

Pass. Connector : Connector 79-3406-52-03 even

Connector 79-3508-52-03 angle

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