

BASIC PRESSURE TEXTILE SENSOR

Soft limit switch or occupancy sensor suited to curved or uneven surfaces. All-fabric dual-layer construction provides flexibility and conformability. Can be placed in direct contact with skin. Real time response. The all-fabric layers allow the sensor to bend without the crackling noise typical of plastic film sensors. Perfectly suited to monitor contact between the human body and a soft surface like a seat or cushion. Also suited to rounded or curved safety edges or large, very wide, or oddly-shaped safety mats. Standard sizes are 9 x 9 cm and 21 x 28 cm. Custom sizes available.



Dual-layer

Technical characteristics

	unit	9 x 9 cm size	21 x 28 cm size
Working principle		contact switch	contact switch
Operating pressure	kPa	24.6 +/- 4.5	24.6 +/- 4.5
Pre-travel (P.T.)	mm	0.28 +/- 0.08	0.28 +/- 0.08
Over-travel (O.T.)	mm	0.75 +/- 0.14	0.75 +/- 0.14
Release travel	mm	0.01	0.01
Minimum bending radius	mm	65.0	65.0
Electrical life (on-off cycles)		> 100 x 10 ³	> 100 x 10 ³
Contact resistance	Ω	< 10	< 10
Operating temperature	°C	- 10 to + 60	- 20 to + 70
Storage temperature	°C	- 20 to + 70	- 20 to + 70
Rating at 24 Vdc	A	0.5	0.5

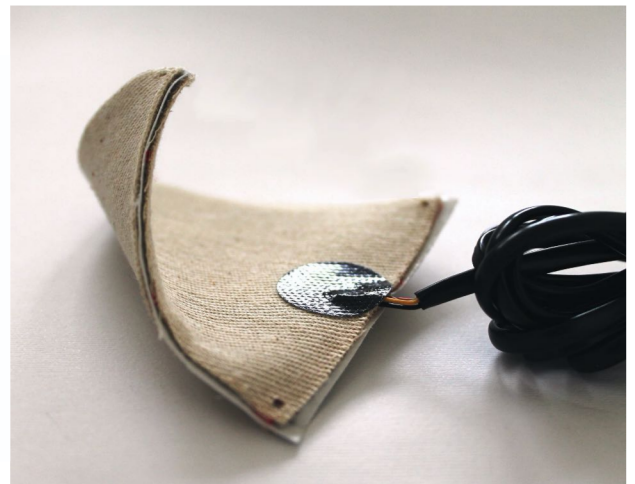
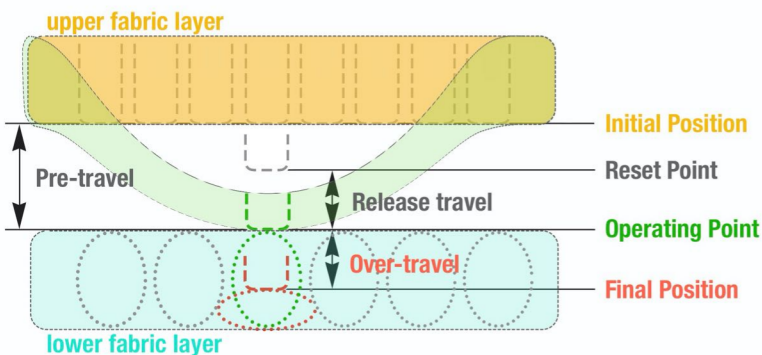


Photo of the standard 9 x 9 cm sensor



Knitronix
industrial flexible sensors

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