

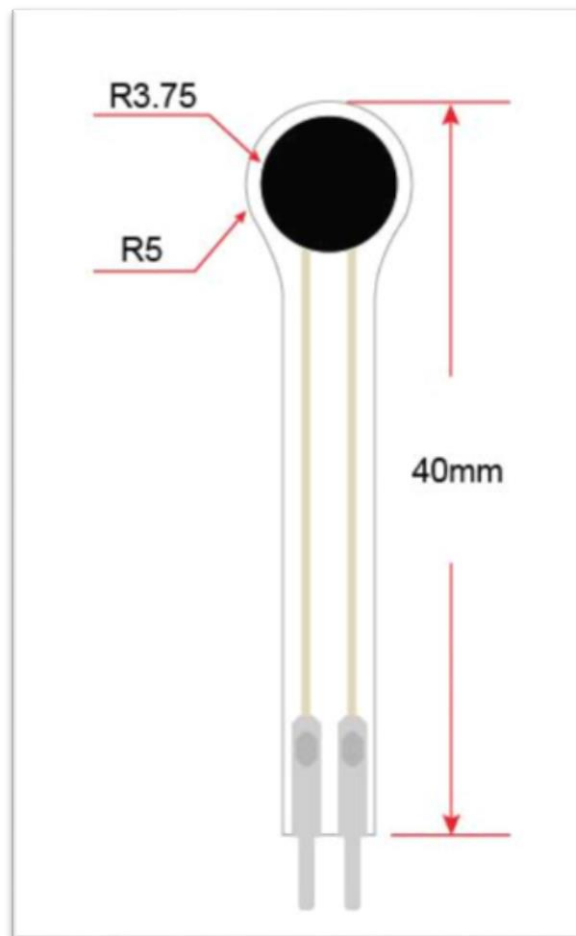
# Thin Film pressure sensor

## Hardware specs

The [XC3738](#) Thin Film Pressure sensor works like an adjustable resistor that changes based on pressure on the centre pad.

Working Voltage	3.3v – 5v
Range	0 – 0.5 kg
Thickness	< 0.25 mm
Response point	< 20 g
Repeatability	< +- 5.8%
Accuracy	+/- 2.5% ( 85% of range)
Durability	>100,000 loadings
Initial Resistance	>100MΩ (unloaded)
Response time	< 1ms
Recovery time	<15ms
Working Temperature	-20°C to 60°C

For simple use, simply connect 'S' pin to an analogue channel, with '+' connected to 5v and '-' connected to ground, then `analogRead()` the result.



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