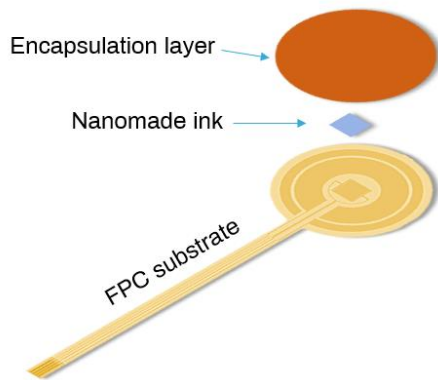


Technical datasheet

Version 1.1

SCHEMATICS

Sensors are composed of a three layers stacking:



DIMENSIONS*	
Active area	3.8cm ²
FPC substrate thickness	50µm
Ink thickness	< 100nm
Encapsulation thickness	100µm

*can be customized function of the application

TECHNICAL SPECIFICATIONS

Typical Sensor Properties	Value	Note
Operating range	From 20g to 1kg	Example under 1mm thick glass display.
Gage factor	30	Min deformation detection** $\epsilon=1.7 \times 10^{-3} \%$
Operating voltage	From 3.3 to 5V	Typical values
Nominal sensor resistance	5kOhm	Typical value. Can be tuned during printing.
Lifetime durability	>2.5M cycles***	Average resistance change 2.5% @ 2.5M cycles
Environmental Stability		
High Temperature Storage	< +3%	Change in resistance: 85°C for 96 hrs
	< -5%	Change in sensitivity: 85°C for 96 hrs**
Low Temperature Storage	< -10%	Change in resistance: -80°C for 96 hrs
	< -3%	Change in sensitivity: -80°C for 96 hrs**
High Humidity Storage	< +5%	Change in resistance: 85°C / 85% RH for 500 hrs

**sensor glued under 1mm thick glass

*** 500g applied on sensor glued under 1mm thick glass