FRX2SO

Datasheet

Features

SHUNT Mode

(FSR)

Wide dynamic pressure sensing Flexible and lightweight Ultra-thin Instant responding sensitivity Low actuation force Low power consumption Cost-effective Robust Easy to integrate

CERADEX

Technical specifications

	mension	Width	10mm	
	n	Active area	8mm x 8mm	
u la		Pin spacing	2.5mm	
S6mm		Nominal thickness	0.33mm	
		Substrate	PET	
		Sensor style	Open	
		Connector	2-pin male solder tabs	
2.5mm FRX2SO Force sensitive resistor - Shunt mode	CERADEX	Thickness	0.73mm	
Force sensitive resistor - Shunt mode		Width	1.6mm	
Note: Ceradex offer customize sensor solution for application-specific integration. Including the sensor's				

Technical dime

Sensor

Length

dimension, single-zone or multi-zone sensing area, connector options, waterproofs, humidity tolerance, and heat tolerance. Contact us for more information.

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FRX2SO

56mm



FORCE SENSITIVE RESISTOR

CERADEX

Characteristics

Sensor type	Shunt mode
Force sensing range	200 g – 10 kg
Actuation force	≤ 200 g
Force resolution	Continuous (analog)
Force repeatability Single part	± 2%
Non-actuated resistance	> 10M Ω (Ohm)
Response time	< 40 ms
Operation temperature	-20°C - +60°C

Durability

Tap durability	1kg/1Hz	> 10M actuation		
Standing load durability	2.5kg/24hr	< 5%		
Operating temperature performance				
Cold	-40°C/1hr	< 5%		
Hot	+60°C/1hr	<15%		
Storage temperature performance				
Cold	-40°C/1hr	< 10%		
Hot	+60°C/1hr	<15%		

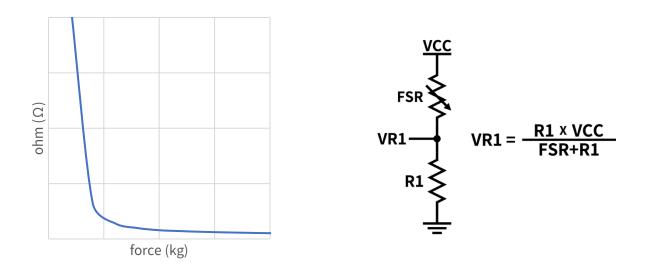
Safety

Maximum driving power	< 240mW
Electromagnetic interference (EMI)	No
Electrostatic discharge (ESD)	No



Response curve

Electrical layout



Note: Force sensing range, response curve, and actuation force can be modified in Ceradex's customized sensor solution.

Applications

Grips applications	Occupancy detection	
Sportwear grips/steering wheel/game controller pressure	Seat/bed occupancy indicator for safety and monitoring.	
detection and monitoring.		
User Interface	Biomedical pressure analysis	
User Interface Can be operated under glove-wearing conditions and detects	Biomedical pressure analysis Can be used in wearable devices such as foot sensing and	



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