Datasheet

FRX2TO

1

Features

Miniature configuration Flexible and lightweight

Lightweight precise sensing

Ultra-thin

Instant responding sensitivity

Low actuation force

Low power consumption

Robust

Easy to integrate

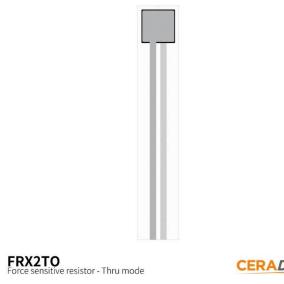
CERADEX

Technical specifications

8mm	Tech	Sensor	FRX2TO
	Technical dimension	Length	56mm
		Width	10mm
	E	Active area	8mm x 8mm
		Pin spacing	2.5mm
56mm		Nominal thickness	0.33mm
		Substrate	PET
		Sensor style	Open
		Connector	2-pin male solder tabs
2.5mm FRX2TO Force sensitive resistor - Thru mode	CERADEX	Thickness	0.73mm
Force sensitive resistor - Thru mode	CERADEA	Width	1.6mm

Note: Ceradex offer customize sensor solution for application-specific integration. Including the sensor's dimension, single-zone or multi-zone sensing area, connector options, waterproofs, humidity tolerance, and heat tolerance. Contact us for more information.

www.ceradex-sensor.com





CERADEX

Characteristics

Sensor type	Thru mode
Force sensing range	50 g – 10 kg
Actuation force	≤ 50 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%

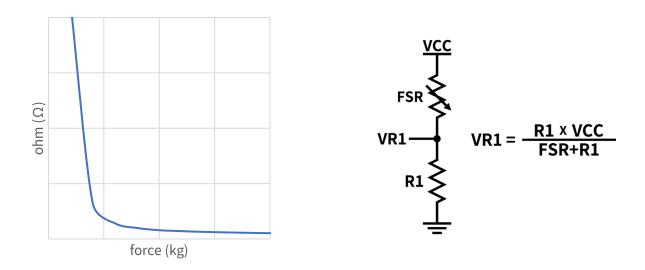
Safety

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	



Ceradex Corporation

Tel	: +886 3 365-6878	Mail	: salesdpt@ceradex.com.tw
Fax	: +886 3 365-6879	Add	: No.1, Ruiyuan 1 st St., Bade Dist., Taoyuan City 33447, Taiwan