

SENSORS LX210:48.48.02

PRODUCT DESCRIPTION

The X3 LX210 replaces the LX200 series. They are designed as a confirmable and durable sensor for measuring interface pressures. These capacitive sensors are ideal for assessing automotive and aerospace ingress-egress, seat design, and manufacturing quality. The LX210 series of sensors are highly accurate due to high repeatability, low hysteresis, and low creep characteristics. Due to their pressure range they have also been used in a variety of research and product testing environments.

SENSING	
Sensor Technology	Capacitive Pressure Imaging
Pressure Range	0.1–15psi
	0.07–10.3N/cm ²
Spatial Resolution	0.5" 12.7mm
Accuracy	± 10% full scale*
Sampling Frame Rate	33 frames/s**

PHYSICAL CHARACTERISTICS		
Total Area	32" x 32"	81.2cm x 81.2cm
Sensing Area	24" x 24"	60.9cm x 60.9cm
Thickness (Sensing Area, uncompressed)	0.08"	0.2cm
Thickness (Border – cabling side)	0.04"	0.1cm
Border Width (cabling side)	5"	12.7cm
Border Width (non-cabling side)	3"	7.6cm
Cable	42" x 2" x 0.18"	106.7cm x 5.1cm x 0.5cm
Connector	4.76" x 2.76" x 0.9"	12.1cm x 7cm x 2.3cm

SENSING	
Ambient Temperature	10°C–40°C
Ambient Humidity	5% to 90% RH

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KEY FEATURES

- High-resolution sensors with a 12.7 mm pitch (resolution) and 2,304 sensing points
- Very good repeatability
- Low hysteresis and consistent data throughout long trials
- Designed for higher pressure seating applications such as ingress-egress testing
- Durable sensor that conforms well to surfaces

REQUIREMENTS FOR OPERATION

- Each LX210:48.48.02 sensor must be connected to one X3 PRO SENSOR PACK
- The X3 PRO SENSOR PACK must be connected to an X3 PRO
- The X3 PRO needs to be connected to a power supply and a computer running XSENSOR software to function

* When verified using the standard XSENSOR verification process.

**Sampling rate based on using X3 PRO Electronics. Frame rate may vary based on computer configuration.