

## PRODUCT DESCRIPTION

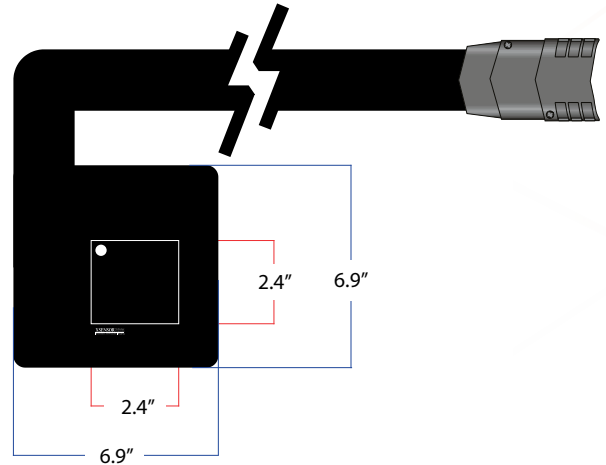
The IX510:12.12.05 is a high pressure sensor with 144 sensing points. The sensor can be used for measuring tactile pressures on surfaces and for higher pressure research or design testing. The IX510:12.12.05 is a thin and conformable sensor that can fit into tight spaces and can be used on uneven surfaces. Additionally, the sensor provides a very fast data acquisition rate for capturing rapid movements.

SENSING	
<b>Sensor Technology</b>	Capacitive Pressure Imaging
<b>Pressure Range</b>	10-512psi
	6.9-353N/cm <sup>2</sup>
<b>Spatial Resolution</b>	0.2"   5.08mm
<b>Accuracy</b>	± 10% full scale*
<b>Sampling Frame Rate</b>	95 frames/s**

PHYSICAL CHARACTERISTICS		
<b>Total Area</b>	6.9" x 6.9"	17.6cm x 17.6cm
<b>Sensing Area</b>	2.4" x 2.4"	6.1cm x 6.1cm
<b>Thickness</b> <small>(Sensing Area, uncompressed)</small>	0.05"	0.13cm
<b>Thickness</b> <small>(Border – cabling side)</small>	0.063"	0.16cm
<b>Border Width</b> <small>(cabling side)</small>	3"	7.7cm
<b>Border Width</b> <small>(non-cabling side)</small>	1.5"	3.8cm
<b>Cable</b>	46.5" x 1" x 0.16"	118cm x 2.5cm x 0.4cm
<b>Connector</b>	4.76" x 2.76" x 0.09"	12.1cm x 7cm x 2.3cm

SENSING	
<b>Ambient Temperature</b>	10°C–40°C
<b>Ambient Humidity</b>	5% to 90% RH

## IX510:12.12.05



## KEY FEATURES

- High-resolution sensors with a 5.08 mm pitch (resolution) and 144 sensing points
- Designed for high-quality pressure images with fast data acquisition
- Excellent for both lab and environmental testing
- Conformable sensor that can measure pressures on uneven surfaces

## REQUIREMENTS FOR OPERATION

- Each IX510:12.12.05 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.