

# SENSORS LX205:50.100.10

## PRODUCT DESCRIPTION

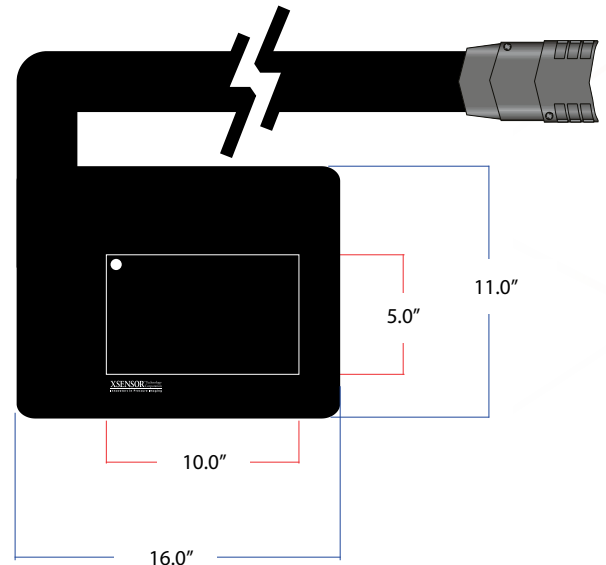
The LX205 series of sensors are designed as a conformable and durable sensor for measuring interface pressures. These capacitive sensors were initially designed for medical applications in rehabilitation seating and have since been more widely used in automotive seating, aerospace, research, and product design.

SENSING	
<b>Sensor Technology</b>	Capacitive Pressure Imaging
<b>Pressure Range</b>	0.1-15 psi
	0.07-10.3N/cm <sup>2</sup>
<b>Spatial Resolution</b>	0.1"   2.54mm
<b>Accuracy</b>	± 10% full scale*
<b>Sampling Frame Rate</b>	36 frames/s**

PHYSICAL CHARACTERISTICS		
<b>Total Area</b>	11" x 16"	28cm x 40.7cm
<b>Sensing Area</b>	5" x 10"	12.7cm x 25.4cm
<b>Thickness</b> <small>(Sensing Area, uncompressed)</small>	0.03"	0.09cm
<b>Thickness</b> <small>(Border – cabling side)</small>	0.04"	0.11cm
<b>Border Width</b> <small>(cabling side)</small>	4"	10.2cm
<b>Border Width</b> <small>(non-cabling side)</small>	2"	5.1cm
<b>Cable</b>	31.5" x 2" x 0.27"	80cm x 5.1cm x 0.7cm
<b>Connector</b>	4.76" x 2.76" x 0.9"	12.1cm x 7cm x 2.3cm

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

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## KEY FEATURES

- High-resolution sensors with a 2.54 mm pitch (resolution) and 5,000 sensing points
- Designed for high-quality pressure images with exceptional detail
- Excellent for both lab and environmental testing

## REQUIREMENTS FOR OPERATION

- Each LX205:50.100.10 sensor must be connected to two X3 PRO SENSOR PACKS
- The X3 PRO SENSOR PACKS need to 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.