

# SENSORS IX500:15.30.05

## PRODUCT DESCRIPTION

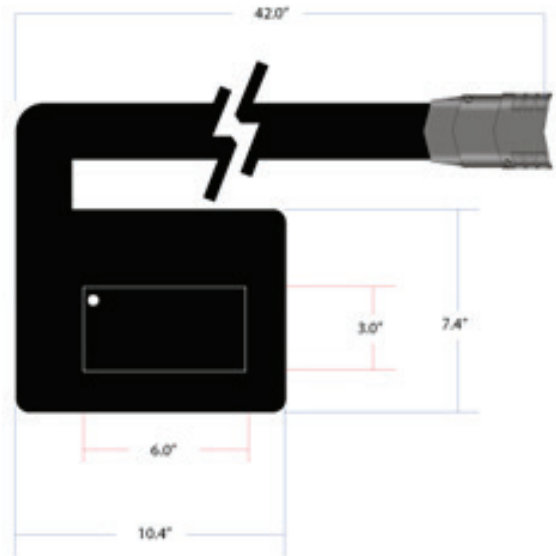
The X3 IX500:15.30.05 is a high pressure sensor with 450 sensing points. The sensor can be used for measuring tactile pressures on surfaces, automated clamping pressures, seal pressures, and for higher pressure research or design testing. The IX500:15.30.05 is a thin and conformable sensor that can fit 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>	5-100psi 10-200psi
	3.4-69N/cm <sup>2</sup> 7-138N/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>	7.4" x 10"	18.8cm x 25.4cm
<b>Sensing Area</b>	3" x 6"	7.6cm x 15.2cm
<b>Thickness</b> <small>(Sensing Area, uncompressed)</small>	0.045"	0.11cm
<b>Thickness</b> <small>(Border – cabling side)</small>	0.12"	0.31cm
<b>Border Width</b> <small>(cabling side)</small>	3.15"	8cm
<b>Border Width</b> <small>(non-cabling side)</small>	1.5"	3.8cm
<b>Cable</b>	42" x 2" x 0.36"	106.68cm x 5.08cm x 0.91cm
<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

## IX500:15.30.05



## KEY FEATURES

- High-resolution sensors with a 5.08 mm pitch (resolution) and 450 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 IX500:15.30.10 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.