

# SENSORS IX500:128.128.10

## PRODUCT DESCRIPTION

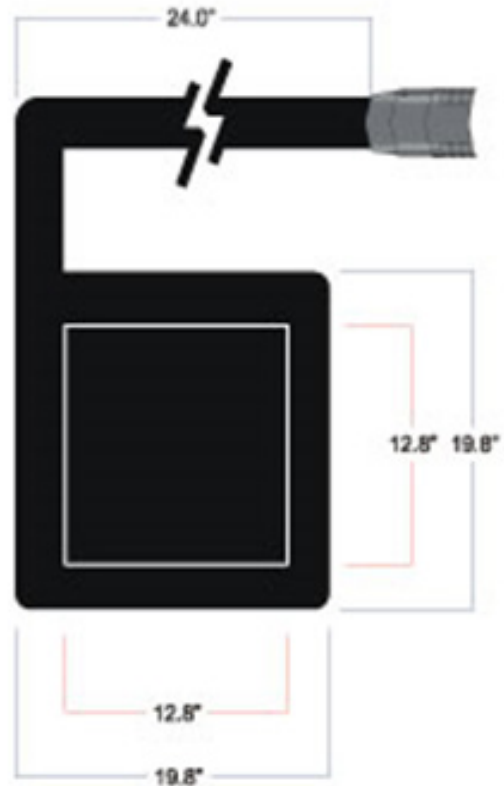
The X3 IX500:128.128.10 is a high pressure sensor with 16,384 sensing points. The sensor has been designed with a tough urethane cover that can withstand outdoor testing for tire applications. The sensor is bendable and can conform to different surfaces. The IX500:128.128.10 provides a combination of higher resolution and faster data acquisition rates so that it can be used in low speed dynamic tire testing.

SENSING	
<b>Sensor Technology</b>	Capacitive Pressure Imaging
<b>Pressure Range</b>	5-100psi 10-300psi
	3.4-69N/cm <sup>2</sup> 7-207N/cm <sup>2</sup>
<b>Spatial Resolution</b>	0.1"   2.54mm
<b>Accuracy</b>	± 10% full scale*
<b>Sampling Frame Rate</b>	16 frames/s**

PHYSICAL CHARACTERISTICS		
<b>Total Area</b>	19.8" x 19.8"	50.2cm x 50.2cm
<b>Sensing Area</b>	12.8" x 12.8"	32.5cm x 32.5cm
<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>	4"	10.16cm
<b>Border Width</b> <small>(non-cabling side)</small>	3"	7.62cm
<b>Cable</b>	24" x 2" x 0.36"	60.96cm 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

## IX500:128.128.10



## KEY FEATURES

- High-resolution sensors with a 5.08 mm pitch (resolution) and 36,864 sensing points
- Designed for large industrial tire testing
- Excellent for both lab and environmental testing
- Durable sensors that performs well in subsurface (soil/sand) testing
- Sensor is mounted on a Lexan backing for added durability

## REQUIREMENTS FOR OPERATION

- Each IX500:128.128.10 sensor must be connected to two X3 PRO SENSOR PACKS
- The X3 PRO SENSOR PACKS 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.