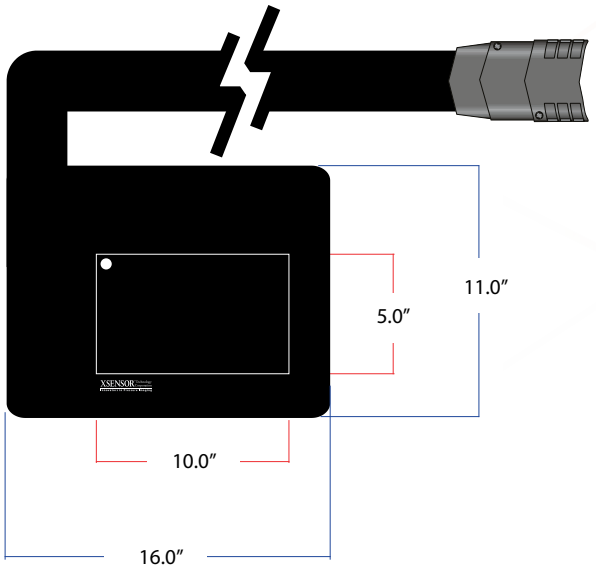
PRODUCT DESCRIPTION

The IX510:50.100.10 sensor is a medium sized high resolution sensor. The sensor has been used for assessing applied pressures from fingers, robotic hands, and other low pressure applications. Due to the resolution and the pressure range, the sensor can detect small changes in pressures and provides very clear images.

IX510:50.100.10



SENSING		
Sensor Technology	Capacitive Pressure Imaging	
Pressure Range	10-512psi	
	6.9-353N/cm^2	
Spatial Resolution	0.1"	2.54mm
Accuracy	± 10% full scale*	
Sampling Frame Rate	37 frames/s**	

PHYSICAL CHARACTERISTICS		
Total Area	11" x 16"	28cm x 40.7cm
Sensing Area	5" x 10"	12.7cm x 25.4cm
Thickness (Sensing Area, uncompressed)	0.04"	0.11cm
Thickness (Border – cabling side)	0.05"	0.13cm
Border Width (cabling side)	4"	10.2cm
Border Width (non-cabling side)	2"	5.1cm
Cable	31.5" x 2" x 0.31"	80cm x 5.1cm x 0.8cm
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

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
- Durable sensors that performs well in subsurface (soil/sand) testing

REQUIREMENTS FOR OPERATION

- Each IX510:50.100.10 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.