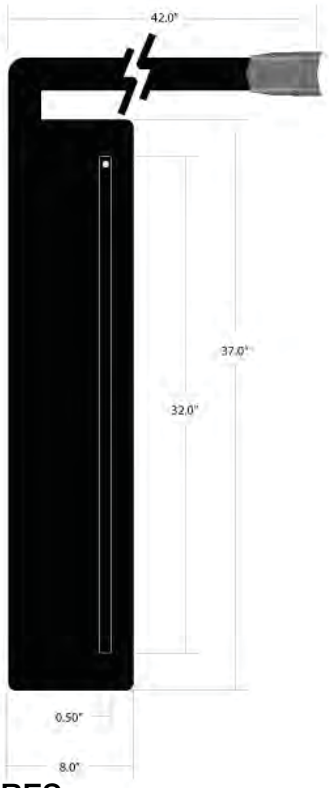
SENSORS – **PX100:1.64.02**

PRODUCT DESCRIPTION

The X3 PX100:1.64.02 is a wiper blade sensor. This sensor has been specifically made to test the profiles of wiper blades and the wiper blade arms. The sensor design is based on industry needs for assessing and comparing different wiper blade profiles and different wiper blade designs. The sensor can be mounted onto a test bench or taped onto a windshield. Wiper blades are then moved onto the sensor area and a repeatable and consistent pressure profile can be viewed and compared using the X3 PRO Software.

PX100:1.64.02



SENSING		
Sensor Technology	Capacitive Pressure Imaging	
Pressure Range	0.1-0.58psi 0.1 – 0.97psi	
	0.007 kg/cm2 – 0.4 kg/cm2, 0.007 kg/cm2 – 0.068 kg/cm2	
Spatial Resolution	0.5”	12.7mm
Accuracy	± 10% full scale*	
Sampling Frame Rate	85 frames/s**	

PHYSICAL CHARACTERISTICS		
Total Area	8”x37”	20.3cmx94cm
Sensing Area	0.5” x 32”	1.27cm X 81.2cm
Thickness (Sensing Area, uncompressed)	0.024”	0.06cm
Thickness (Border – cabling side)	0.04”	0.1cm
Border Width (cabling side)	6”	15.2cm
Border Width (non-cabling side)	1 ½”	3.8cm
Cable	42”x0.45”	106cmx1.14cm
Connector	4.76”x 2.76”x 0.9”	12.1cm x 7.0cm x 2.3cm

ENVIRONMENT	
Ambient Temperature	10°C - 40°C
Ambient Humidity	5% to 90% RH

KEY FEATURES

- Designed for testing wiper blade profiles
- Single line array provides pressure profile of wiper blade on wind shield
- Static tests
- Provides consistent and repeatable data
- Sensor conforms to bend radius of windshield
- Wiper blades profiles can be compared

REQUIREMENTS FOR OPERATION

- Each sensor must be connected to one X3 PRO SENSOR PACK.
- The X3 PRO SENSOR PACK needs to be connected to an X3 PRO.
- The X3 PRO configurations need to be subsequently connected to a power supply and a computer running XSENSOR software to function.

* When verified using the standard XSENSOR calibration process.

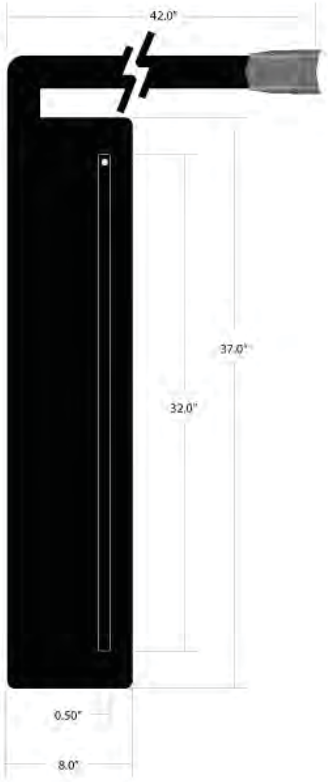
**Sampling rate based on using X3 PRO Electronic. Frame rate may vary based on computer configuration.

SENSORS – **PX100:1.160.05**

PRODUCT DESCRIPTION

The X3 PX100:1.160.05 is a high resolution wiper blade sensor. This sensor has been specifically made to test the profiles of wiper blades and the wiper blade arms. The sensor design is based on industry needs for assessing and comparing different wiper blade profiles and different wiper blade designs. The sensor can be mounted onto a test bench or taped onto a windshield. Wiper blades are then moved onto the sensor area and a repeatable and consistent pressure profile can be viewed and compared using the X3 PRO Software.

PX100:1.160.05



SENSING		
Sensor Technology	Capacitive Pressure Imaging	
Pressure Range	0.1 - 0.58 psi, 0.1 - 1.0 psi	
	0.07 – 0.4 N/cm2 0.07 – 0.67 N/cm2	
Spatial Resolution	0.2”	5.08mm
Accuracy	± 10% full scale*	
Sampling Frame Rate	40 frames/s**	

PHYSICAL CHARACTERISTICS		
Total Area	8”x37”	20.3cmx94cm
Sensing Area	32” x 0.5”	81.3cm x 1.27cm
Thickness **(Sensing Area, uncompressed)**	0.024”	0.06cm
Thickness **(Border – cabling side)**	0.04”	0.1cm
Border Width **(cabling side)**	5”	12.7cm
Border Width **(non-cabling side)**	2.5”	6.3cm
Cable	42” x 2” x 0.5”	106cm x 5.08cm x 1.27cm
Connector	4.76”x 2.76”x 0.9”	12.1cm x 7.0cm x 2.3cm

ENVIRONMENT	
Ambient Temperature	10°C - 40°C
Ambient Humidity	5% to 90% RH

KEY FEATURES

- High-resolution sensors with a 5.08 mm pitch (Resolution) and 160 sensing points
- Designed for viewing the pressure profile of a wiper blade on a windshield or test bench
- Provides consistent and repeatable profiles
- Very stable images with little variance
- Maintains calibration, limited recalibration required

REQUIREMENTS FOR OPERATION

- Each PX100:1.160.05 sensor must be connected to three 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 calibration process.

**Sampling rate based on using X3 PRO Electronic. Frame rate may vary based on computer configuration.

XSENSOR® Technology Corporation
Innovators in Pressure Imaging