Honeywell Sensing and Control



XCX01DNC



Actual product appearance may vary.

Features

• Pressure Ranges from 4 in H₂O, 10 in H₂O 1 psi through 150 psi

- Calibrated offset to ±/mV
- Calibrated Full Scale Span to ±1.0 % FS
- over Compensated Temperature Range
- Temperature Compensated over 0 C to +70 • C
- Gage, Differential, and Absolute Pressure
- Burst Pressure 3X Rated
- Ratiometric mV Output

Description

Potential Applications

Medical Applications

Commercial Grade

• Applications Requiring Small Size

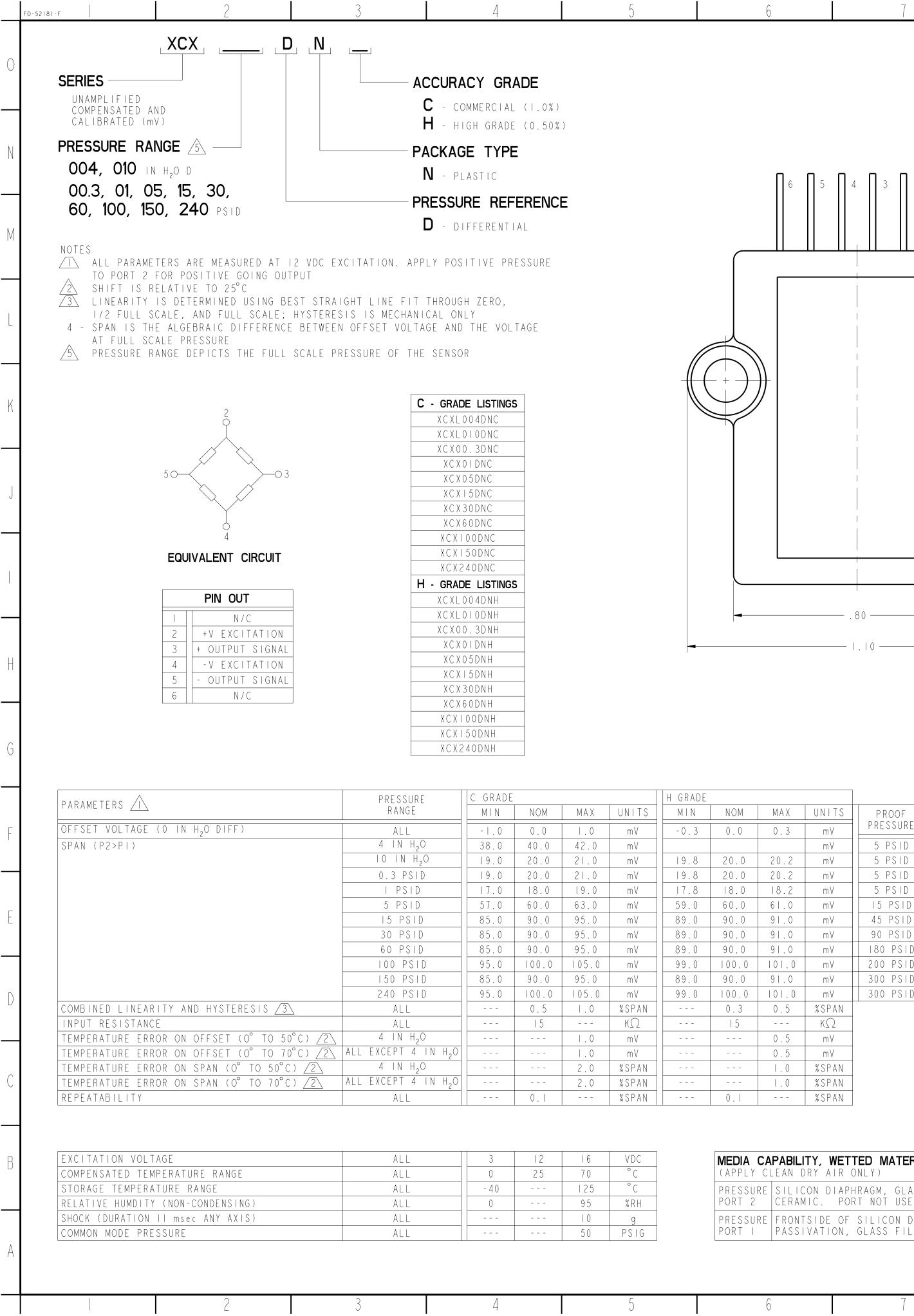
• Applications Requiring Vacuum, Positive Pressure or Both

Pressure Sensors: Measurement Type: Differential, Gage, Vaccum Gage; Signal Conditioning: Unamplified; Pressure Range: ± 1.0 psi; Port Style: Barbed:

The XCXL, XCX Series integrates silicon micromachined sensing technology, temperature compensation, and calibration in an improved performance industry standard package. A unique stress isolating design protects against torque induced errors typically found in competitive products. Additional stability and long term accuracy improvements are gained through simplified compensation techniques, which eliminate temperature dependent thermal compensation. This series is available in a commercial (XCX-DNC) performance level. This performance level provides the calibration accuracy of offset thermal compensation, and linearity providing added flexibility to meet critical performance budgets. The XCA and XCR Series provide amplified output as well as integrated compensation.

Product Specifications					
Measurement Type	Differential, Vacuum Gage, Gage				
Signal Conditioning	Unamplified				
Pressure Range	± 1.0 psi				
Maximum Overpressure	5.0 psi				
Supply Voltage	3.0 Vdc min., 12.0 Vdc typ., 16.0 Vdc max.				
Compensated	Yes				
Output Calibration	Yes				
Termination	PCB				
Port Style	Barbed				
Package Style	Honeywell DI-XCX				

Null Offset0 mV typ.Null Shift over Temperature± 1 mVSpan Shift Over Temperature± 2% spanLinearity, Hysteresis Error± 0.5 % Span Typ.; ± 1 % Span Max.Repeatability0.1% span typ.Input Resistance15.0 kOhmShock10 gWeight7.6 g [0.27 oz]Operating Temperature Range-25 °C to 85 °C [-13 °F to 185 °F]Compensated Temperature Range-40 °C to 125 °C [-40 °F to 257 °F]Media CompatibilityPort 1: Dry gases only. Media must be compatible with epoxy- based adhesive. Port 2: Wetted materials. Media must be compatible with nylon housing, epoxy adhesive and silicon.UNSPSC Code411121 TransducersAvailabilityGlobal	T 1 1 0 111 11	
Null Offset0 mV typ.Null Shift over Temperature± 1 mVSpan Shift Over Temperature± 2% spanLinearity, Hysteresis Error± 0.5 % Span Typ.; ± 1 % Span Max.Repeatability0.1% span typ.Input Resistance15.0 kOhmShock10 gWeight7.6 g [0.27 oz]Operating Temperature Range-25 °C to 85 °C [-13 °F to 185 °F]Compensated Temperature Range-40 °C to 125 °C [-40 °F to 257 °F]Media CompatibilityPort 1: Dry gases only. Media must be compatible with epoxy- based adhesive. Port 2: Wetted materials. Media must be compatible with nylon housing, epoxy adhesive and silicon.UNSPSC Code411121 TransducersAvailabilityGlobal	Typical Sensitivity	18 mV/psi
Null Shift over Temperature± 1 mVSpan Shift Over Temperature± 2% spanLinearity, Hysteresis Error± 0.5 % Span Typ.; ± 1 % Span Max.Repeatability0.1% span typ.Input Resistance15.0 kOhmShock10 gWeight7.6 g [0.27 oz]Operating Temperature Range0 °C to 70 °C [32 °F to 185 °F]Compensated Temperature Range-40 °C to 125 °C [-40 °F to 257 °F]Storage Temperature Range-40 °C to 125 °C [-40 °F to 257 °F]Media CompatibilityPort 1: Dry gases only. Media must be compatible with epoxy- based adhesive. Port 2: Wetted materials. Media must be compatible with nylon housing, epoxy adhesive and silicon.UNSPSC Code411121 TransducersAvailabilityGlobal	Full Scale Span	18 mV typ.
Span Shift Over Temperature± 2% spanLinearity, Hysteresis Error± 0.5 % Span Typ.; ± 1 % Span Max.Repeatability0.1% span typ.Input Resistance15.0 kOhmShock10 gWeight7.6 g [0.27 oz]Operating Temperature Range-25 °C to 85 °C [-13 °F to 185 °F]Compensated Temperature Range-40 °C to 125 °C [-40 °F to 257 °F]Storage Temperature Range-40 °C to 125 °C [-40 °F to 257 °F]Media CompatibilityPort 1: Dry gases only. Media must be compatible with epoxy- based adhesive. Port 2: Wetted materials. Media must be compatible with nylon housing, epoxy adhesive and silicon.UNSPSC Code411121 TransducersAvailabilityGlobal	Null Offset	0 mV typ.
Linearity, Hysteresis Error± 0.5 % Span Typ.; ± 1 % Span Max.Repeatability0.1% span typ.Input Resistance15.0 kOhmShock10 gWeight7.6 g [0.27 oz]Operating Temperature Range-25 °C to 85 °C [-13 °F to 185 °F]Compensated Temperature Range0 °C to 70 °C [32 °F to 158 °F]Storage Temperature Range-40 °C to 125 °C [-40 °F to 257 °F]Media CompatibilityPort 1: Dry gases only. Media must be compatible with epoxy- based adhesive. Port 2: Wetted materials. Media must be compatible with nylon housing, epoxy adhesive and silicon.UNSPSC Code411121 TransducersUNSPSC CommodityAtil121 Transducers	Null Shift over Temperature	± 1 mV
Max.Max.Repeatability0.1% span typ.Input Resistance15.0 kOhmShock10 gWeight7.6 g [0.27 oz]Operating Temperature Range-25 °C to 85 °C [-13 °F to 185 °F]Compensated Temperature Range0 °C to 70 °C [32 °F to 158 °F]Storage Temperature Range-40 °C to 125 °C [-40 °F to 257 °F]Media CompatibilityPort 1: Dry gases only. Media must be compatible with epoxy- based adhesive. Port 2: Wetted materials. Media must be compatible with nylon housing, epoxy adhesive and silicon.UNSPSC Code411121 TransducersAvailabilityGlobal	Span Shift Over Temperature	± 2% span
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Shock10 gWeight7.6 g [0.27 oz]Operating Temperature Range-25 °C to 85 °C [-13 °F to 185 °F]Compensated Temperature Range0 °C to 70 °C [32 °F to 158 °F]Storage Temperature Range-40 °C to 125 °C [-40 °F to 257 °F]Media CompatibilityPort 1: Dry gases only. Media must be compatible with epoxy- based adhesive. Port 2: Wetted materials. Media must be compatible with nylon housing, epoxy adhesive and silicon.UNSPSC Code411121UNSPSC CommodityA11121 TransducersAvailabilityGlobal	Repeatability	0.1% span typ.
Weight7.6 g [0.27 oz]Operating Temperature Range-25 °C to 85 °C [-13 °F to 185 °F]Compensated Temperature Range0 °C to 70 °C [32 °F to 158 °F]Storage Temperature Range-40 °C to 125 °C [-40 °F to 257 °F]Media CompatibilityPort 1: Dry gases only. Media must be compatible with epoxy- based adhesive. Port 2: Wetted materials. Media must be compatible with nylon housing, epoxy adhesive and silicon.UNSPSC Code411121UNSPSC Commodity411121 TransducersAvailabilityGlobal	Input Resistance	15.0 kOhm
Operating Temperature Range-25 °C to 85 °C [-13 °F to 185 °F]Compensated Temperature Range0 °C to 70 °C [32 °F to 158 °F]Storage Temperature Range-40 °C to 125 °C [-40 °F to 257 °F]Media CompatibilityPort 1: Dry gases only. Media must be compatible with epoxy- based adhesive. Port 2: Wetted materials. Media must be compatible with nylon housing, epoxy adhesive and silicon.UNSPSC Code411121UNSPSC Commodity411121 TransducersAvailabilityGlobal	Shock	10 g
Compensated Temperature Range0 °C to 70 °C [32 °F to 158 °F]Storage Temperature Range-40 °C to 125 °C [-40 °F to 257 °F]Media CompatibilityPort 1: Dry gases only. Media must be compatible with epoxy- based adhesive. Port 2: Wetted materials. Media must be compatible with nylon housing, epoxy adhesive and silicon.UNSPSC Code411121UNSPSC Commodity411121 TransducersAvailabilityGlobal	Weight	7.6 g [0.27 oz]
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UNSPSC Commodity 411121 Transducers Availability Global	Media Compatibility	must be compatible with epoxy- based adhesive. Port 2: Wetted materials. Media must be compatible with nylon housing,
Availability Global	UNSPSC Code	411121
	UNSPSC Commodity	411121 Transducers
Series Name XCX	Availability	Global
	Series Name	ХСХ



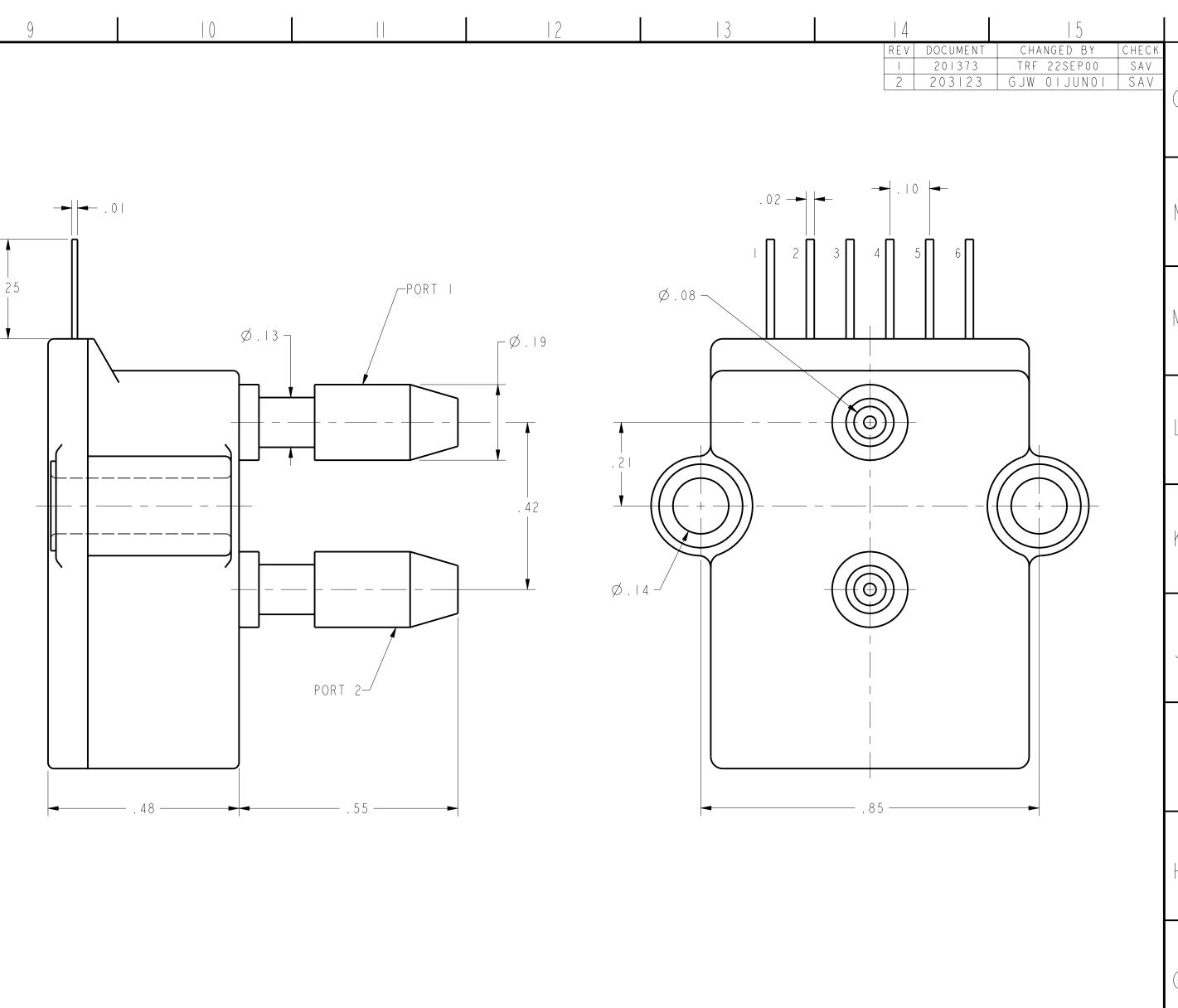
6	7	8	9	0	

	1		
. 0	0.3	mV	PRESSURE
		mV	5 PSID
0.0	20.2	mV	5 PSID
0.0	20.2	mV	5 PSID
8.0	18.2	тV	5 PSID
0.0	61.0	тV	I5 PSID
0.0	91.0	mV	45 PSID
0.0	91.0	тV	90 PSID
0.0	91.0	тV	I80 PSID
0.0	101.0	тV	200 PSID
0.0	91.0	тV	300 PSID
0.0	101.0	тV	300 PSID
. 3	0.5	%SPAN	
5		KΩ	
	0.5	тV	
	0.5	тV	
	Ι.Ο	%SPAN	
	Ι.Ο	%SPAN	
.		%SPAN	

PABILITY, WETTED MATERIALS EAN DRY AIR ONLY)
SILICON DIAPHRAGM, GLASS FILLED NYLON, AND ALUMINA CERAMIC. PORT NOT USED FOR ABSOLUTE DEVICES
FRONTSIDE OF SILICON DIAPHRAGM, SILICONE GEL PASSIVATION, GLASS FILLED NYLON, ALUMINA.

N C T T	INLESS OTHERWISE PECIFIED TOLERANCES ARE: US(inch) SI(mm) IO PLACE X ±.040 ±1 ONE PLACE .X ±.030 ±0,4 WO PLACE .XX ±.015 ±0,15 HREE PLACE .XXX ±.005 ± NGLES ± ± RAW MATERIAL-COMMERCIAL STANDARD
	THIRD ANGLE PROJECTION

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			+	. 42	
			I		



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40 ±I	CHECK	SAV	22SEP00			nu	oney	well				
30 ±0,4 15 ±0,15		AWING COVERS A				Sensi	ng and	l Control				
05 ± ± NDARD			TITLE PRESSURE SENSOR				REV					
CTION		SIONS ARE TO B CTIVE COATINGS			DWG TYPE M	DRAWING NAT		SERIES	CHART	1	2	
	РТС	3 D ASME	YI4.5M-1994	SCALE	5;1	WEIGHT			SHEET	I OF		
	2		3			4			15			