



11 SERIES

- Ranges from vacuum through 0 psig to 400 psig
- Current and voltage outputs available
- 316 Stainless Steel wetted parts
- Can be cleaned-in-place (CIP) or steamed-in-place (SIP)
- Meets 3A requirements for the food and beverage, dairy, pharmaceutical and biotechnology industries
- ASME BPE compliant
- CE compliant to suppress RFI, EMI and ESD

APPLICATIONS

- Food & beverage processing
- Pasteurization systems
- Pharmaceutical
- Medical

SPECIFICATIONS

Output signals	4 mA to 20 mA 2-wire, 0 Vdc to 5 Vdc 3-wire, 1 Vdc to 5 Vdc 3-wire, 1 Vdc to 6 Vdc 3-wire, 0 Vdc to 10 Vdc, 3-wire, 1 Vdc to 11 Vdc 3-wire
Pressure ranges	Vacuum through 0 psig to 400 psig
Accuracy	±0.25% full scale (BFSL); Optional ±0.125% full scale (BFSL); (Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)
Stability	±0.2% full scale for 1 year, non-accumulating
Adjustment	±10% full scale for zero and span
Response time	< 10 ms
Service life	> 100,000,000 load cycles
Temperature ranges	Compensated 32 °F to 175 °F (0 °C to 80 °C) Effect ±0.01%/°F for zero and span Media -40 °F to 300 °F (-40 °C to 150 °C) Ambient -40 °F to 176 °F (-40 °C to 80 °C) Storage -40 °F to 212 °F (-40 °C to 100 °C)
Power requirement*	10 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire, 0 Vdc to 5 Vdc, 3-wire, 1 Vdc to 5 Vdc, 3-wire, 1 Vdc to 6 Vdc, 3-wire) 14 Vdc to 30 Vdc (0 Vdc to 10 Vdc, 3-wire, Vdc to 11 Vdc, 3-wire)
Load limitations	≤ (VPower -10)/0.020 Amp for 4 mA to 20 mA output ≤ 5,000 Ω for 1 Vdc to 5 Vdc output ≤ 10,000 Ω for 0 Vdc to 10 Vdc output ≤ 4,500 Ω for 0.5 Vdc to 4.5 Vdc output
Proof pressure	3 times full scale for 0 psig to 2 psig through 0 psig to 200 psig 1.75 times full scale for 0 psig to 300 psig through 0 psig to 400 psig
Burst pressure	3.8 times full scale for 0 psig to 2 psig through 0 psig to 200 psig 4 times full scale for 0 psig to 300 psig through 0 psig to 400 psig
Measuring element	316 Stainless Steel
Connection	316 Stainless Steel
Housing material	316 Stainless Steel
Environmental rating	IP65
Electromagnetic rating	CE compliant to EMC norm EN 61326:1997/A1:1998 RFI, EMI and ESD protection
Electrical protection	Reverse polarity, overvoltage and short circuit protection
Shock	1,000 g's according to IEC 60068-2-27
Vibration	15 g's according to IEC 60068-2-6
Weight	Approximately 1.1 lb.

* Unregulated

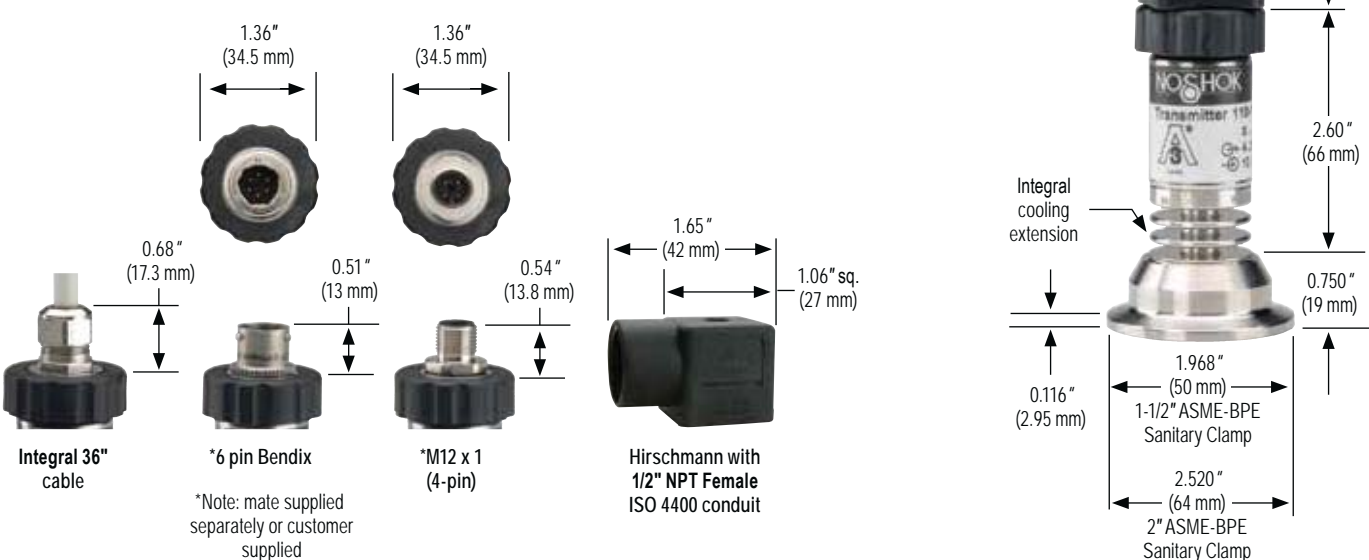
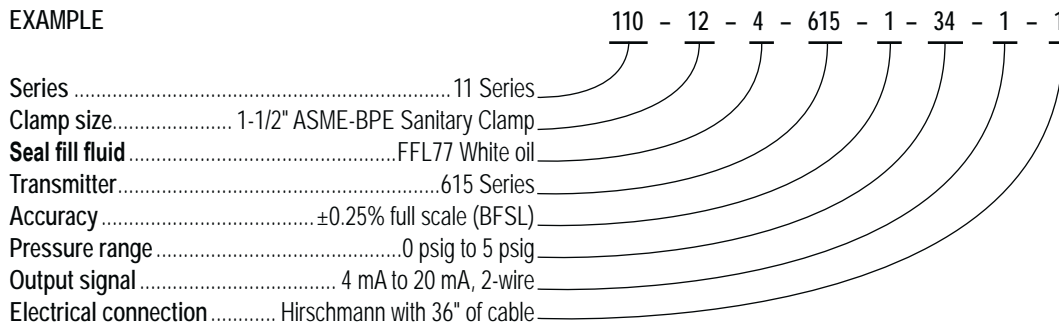
Diaphragm seal must be installed facing downward or in a vertical position for drainability. Do not install diaphragm seal facing in an upward position.



ORDERING INFORMATION									
SERIES	110								
CLAMP SIZES	12	1-1/2"			16	2"			
SEAL FILL FLUID	4	FFL77 White oil Other food grade quality fill fluids available — please consult factory							
TRANSDUCER	615 615 Series transducer								
ACCURACIES	1	±0.25% full scale (BFSL)							
	2	±0.125% full scale							
PRESSURE RANGES	01	-30 inHg to 0 psig	16	-30 inHg to 150 psig	37	0 psig to 10 psig	55	0 psig to 160 psig	
	04	-30 inHg to 15 psig	19	-30 inHg to 200 psig	40	0 psig to 15 psig	58	0 psig to 200 psig	
	07	-30 inHg to 30 psig	22	-30 inHg to 300 psig	43	0 psig to 30 psig	61	0 psig to 300 psig	
	10	-30 inHg to 60 psig	31	0 psig to 100 inH ₂ O	46	0 psig to 60 psig	64	0 psig to 400 psig	
	13	-30 inHg to 100 psig	34	0 psig to 5 psig	49	0 psig to 100 psig			
OUTPUT SIGNALS	1	4 mA to 20 mA, 2-wire		3	1 Vdc to 5 Vdc, 3-wire		5	0 Vdc to 10 Vdc, 3-wire	
	2	0 Vdc to 5 Vdc, 3-wire		4	1 Vdc to 6 Vdc, 3-wire		6	1 Vdc to 11 Vdc, 3-wire	
ELECTRICAL CONNECTIONS	1	36" Cable attached to Hirschmann			14	Hirschmann connection with ISO 4400 1/2" NPT conduit			
	3	6-pin Bendix			25	M12 X 1 (4-pin)			
	8	Hirschmann (DIN EN 175301-803 form A)			36	Integral 36" cable			

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

EXAMPLE



2-WIRE WIRING

	Hirschmann	Cable	M12	Bendix
+ Supply	1	Red	1	A
+ Output	2	Black	3	B

3-WIRE WIRING

	Hirschmann	Cable	M12	Bendix
+ Supply	1	Red	1	A
Common	2	Black	3	B
+ Output	3	White	4	C