Voltage Output

200 SERIES

- Ranges from vacuum to 0 psig to 15,000 psig; absolute ranges from 0 psia to 15 psia through 0 psia to 300 psia
- Voltage output
- 316 and 17-4PH Stainless Steel wetted parts
- CE compliant to suppress RFI, EMI and ESD

APPLICATIONS

- HVAC
- Hydraulics & pneumatics
- Injection molding machines
- Railroad equipment
- Stamping & forming presses

SPECIFICATIONS

Output signals	0 Vdc to 5 Vdc, 3-wire; 0 Vdc to 10 Vdc, 3-wire; 1 Vdc to 5 Vdc, 3-wire; 1 Vdc to 6 Vdc, 3-wire; 1 Vdc to 11 Vdc, 3-wire
Pressure ranges	Vacuum through 0 psig to 15,000 psig Absolute from 0 psia to 15 psia through 0 psia to 300 psia
Accuracy	±0.5% full scale (BFSL); optional ±0.25% full scale (BFSL); (Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)
Stability	≤ ±0.2% full scale per year, non-accumulating
Adjustment	±10% full scale for zero and span
Response time	≤ 1 ms (between 10% and 90% full scale)
Service life	> 100,000,000 load cycles
Temperature ranges	Compensated 32 °F to 176 °F (0 °C to 80 °C) Effect ±0.017% full scale/ °F for zero and span Media -22 °F to 212 °F (-30 °C to 100 °C) Ambient -40 °F to 185 °F (-40 °C to 85 °C) Storage -40 °F to 212 °F (-40 °C to 100 °C)
Power requirement*	10 Vdc to 30 Vdc (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, 1 Vdc to 11 Vdc, 3-wire)
Load limitations	≥ 5,000 Ω for 0 Vdc to 5 Vdc, 1 Vdc to 5 Vdc, and 1 Vdc to 6 Vdc outputs; ≥10,000 Ω for 0 Vdc to 10 Vdc and 1 Vdc to 11 Vdc outputs. Current consumption 8 mA
Proof pressure	3 times full scale for ranges 0 psi to 5 psi through 0 psi to 200 psi 1.75 times full scale for ranges 0 psi to 300 psi through 0 psi to 10,000 psi 1.5 times full scale for 0 psi to 15,000 psi
Burst pressure	3.8 times full scale for ranges 0 psi to 5 psi through 0 psi to 200 psi 4 times full scale for ranges 0 psi to 300 psi through 0 psi to 10,000 psi 3 times full scale for 0 psi to 15,000 psi
Measuring element	316 Stainless Steel for vacuum through 300 psi; 17-4PH Stainless Steel for ≥500 psi
Connection	316 Stainless Steel
Housing material	316 Stainless Steel
Environmental rating	IP65
Electromagnetic rating	CE compliant to EMC norm EN 61326:2014/A1:1998 RFI, EMI and ESD protection
Electrical protection	Reverse polarity, over-voltage and short circuit protection
Shock	1,000 g's according to IEC 60068-2-27
Vibration	20 g's according to IEC 60068-2-6
Weight	Approximately 3.5 oz.

* Unregulated

WARNING: This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

ORDERING INFORMATION

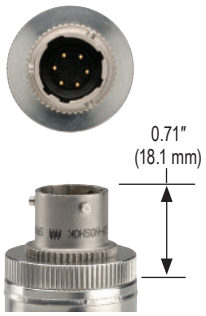
SERIES	**200**										
PRESSURE RANGES	**30vac**	-30 inHg to 0 psig	**30/300**	-30 inHg to 300 psig	**200**	0 psig to 200 psig	**3000**	0 psig to 3,000 psig	**15A**	0 psia to 15 psia
	30/15	-30 inHg to 15 psig	**5**	0 psig to 5 psig	**300**	0 psig to 300 psig	**4000**	0 psig to 4,000 psig	**30A**	0 psia to 30 psia
	30/30	-30 inHg to 30 psig	**10**	0 psig to 10 psig	**500**	0 psig to 500 psig	**5000**	0 psig to 5,000 psig	**60A**	0 psia to 60 psia
	30/45	-30 inHg to 45 psig	**15**	0 psig to 15 psig	**600**	0 psig to 600 psig	**6000**	0 psig to 6,000 psig	**100A**	0 psia to 100 psia
	30/60	-30 inHg to 60 psig	**30**	0 psig to 30 psig	**750**	0 psig to 750 psig	**7500**	0 psig to 7,500 psig	**150A**	0 psia to 150 psia
	30/100	-30 inHg to 100 psig	**60**	0 psig to 60 psig	**1000**	0 psig to 1,000 psig	**10000**	0 psig to 10,000 psig	**200A**	0 psia to 200 psia
	30/150	-30 inHg to 150 psig	**100**	0 psig to 100 psig	**1500**	0 psig to 1,500 psig	**15000**	0 psig to 15,000 psig	**300A**	0 psia to 300 psia
	30/200	-30 inHg to 200 psig	**150**	0 psig to 150 psig	**2000**	0 psig to 2,000 psig				
				psig = gauge pressure		psia = absolute pressure		Other ranges available on request		
ACCURACIES	**1**	±0.5% full scale (BFSL)			**2**	±0.25% full scale (BFSL)				
OUTPUT SIGNALS	**2**	0 Vdc to 5 Vdc, 3-wire	**3**	1 Vdc to 5 Vdc, 3-wire	**4**	1 Vdc to 6 Vdc, 3-wire	**5**	0 Vdc to 10 Vdc, 3-wire	**6**	1 Vdc to 11 Vdc, 3-wire
PROCESS CONNECTIONS	**1**	1/8″ NPT male	**3**	SAE J1926-3:7/16-20 adjustable			**9**	SAE J1926-1:7/16-20		
	2	1/4″ NPT male	**4**	1/8″ NPT female			**10**	G1/4 male		
ELECTRICAL CONNECTION	**1**	36″ cable (connected to option 7)			**6**	1/2″ NPT conduit (with 36" cable)			**25**	M12 x 1 (4-pin)
	2	4-pin Bendix			**7**	Mini-Hirschmann (DIN EN 175301-803 form C)			**36**	Integral cable 36"
	3	6-pin Bendix								
		NOTE: 0 Vdc to 5 Vdc and 0 Vdc to 10 Vdc outputs are also available in 4-wire configurations for use with other electrical systems.								
OPTION	**ST8**	Threaded Orifice								

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

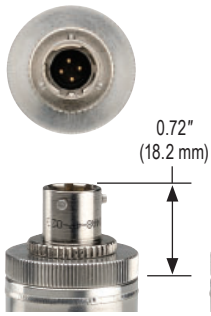
EXAMPLE **200 – 500 – 1 – 2 – 2 – 7 – ST8**

Series ..... 200 Series
Pressure range ..... 0 psig to 500 psig
Accuracy ..... ±0.5% full scale (BFSL)
Output signal ..... 0 Vdc to 5 Vdc, 3-wire
Process connection ..... 1/4" NPT Male
Electrical connection ..... Mini-Hirschmann
Option ..... Threaded Orifice

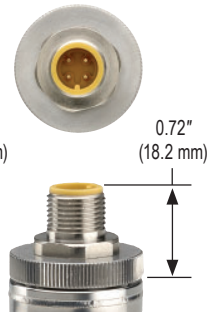
1/2″ NPT Conduit with 36" jacketed cable



*** 6 pin Bendix**



*** 4 pin Bendix**



*** M12 x 1 (4-pin)**

WIRING				
Wire	**Bendix 4-pin or 6-pin**	**Mini-Hirschmann**	**Cable**	**M12 x 1**
+ Supply	pin A	pin 1	Red	pin 1
Common	pin B	pin 2	Black	pin 3
+ Output	pin C	pin 3	White	pin 4

* Note: mate supplied separately or customer supplied

Mini-Hirschmann

Current Output

100 SERIES

- Vacuum and compound ranges through 0 psig to 15,000 psig
- Current output
- 316 and 17-4PH Stainless Steel wetted parts
- CE compliant to suppress RFI, EMI and ESD

APPLICATIONS

- HVAC
- Hydraulics & pneumatics
- Injection molding machines
- Railroad equipment
- Stamping & forming presses

SPECIFICATIONS

Output signal	4 mA to 20 mA, 2-wire
Pressure ranges	Vacuum through 0 psig to 15,000 psig Absolute from 0 psia to 15 psia through 0 psia to 300 psia
Accuracy	±0.5% full scale (BFSL); optional ±0.25% 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	≤ 1 ms (between 10% and 90% full scale)
Service life	> 100,000,000 load cycles
Temperature ranges	Compensated 32 °F to 176 °F (0 °C to 80 °C) Effect ±0.017% full scale/ °F for zero and span Media -22 °F to 212 °F (-30 °C to 100 °C) Ambient -40 °F to 185 °F (-40 °C to 85 °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)
Load limitations	≤ (Vpower supply -10)/.020 Amp
Proof pressure	3 times full scale for ranges 0 psi to 5 psi through 0 psi to 200 psi 1.75 times full scale for ranges 0 psi to 300 psi through 0 psi to 10,000 psi 1.5 times full scale for 0 to 15,000 psi
Burst pressure	3.8 times full scale for ranges 0 psi to 5 psi through 0 psi to 200 psi 4 times full scale for ranges 0 psi to 300 psi through 0 psi to 10,000 psi 3 times full scale for 0 psi to 15,000 psi
Measuring element	316 Stainless Steel for vacuum through 300 psi; 17-4PH Stainless Steel for ≥500 psi
Connection	316 Stainless Steel
Housing material	316 Stainless Steel
Environmental rating	IP65
Electromagnetic rating	CE compliant to EMC norm EN 61326:2014/A1:1998 RFI, EMI and ESD protection
Electrical protection	Reverse polarity, over-voltage and short circuit protection
Shock	1000 g's according to IEC 60068-2-27
Vibration	20 g's according to IEC 60068-2-6
Weight	Approximately 3.5 oz.

* Unregulated

WARNING: This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

ORDERING INFORMATION

SERIES	**100**								
PRESSURE RANGES	**30vac**	-30 inHg to 0 psig	**5**	0 psig to 5 psig	**200**	0 psig to 200 psig	**3000**	0 psig to 3,000 psig	**15A**	0 psia to 15 psia
	30/15	-30 inHg to 15 psig	**10**	0 psig to 10 psig	**300**	0 psig to 300 psig	**4000**	0 psig to 4,000 psig	**30A**	0 psia to 30 psia
	30/30	-30 inHg to 30 psig	**15**	0 psig to 15 psig	**500**	0 psig to 500 psig	**5000**	0 psig to 5,000 psig	**60A**	0 psia to 60 psia
	30/45	-30 inHg to 45 psig	**25**	0 psig to 25 psig	**600**	0 psig to 600 psig	**6000**	0 psig to 6,000 psig	**100A**	0 psia to 100 psia
	30/100	-30 inHg to 100 psig	**30**	0 psig to 30 psig	**750**	0 psig to 750 psig	**7500**	0 psig to 7,500 psig	**150A**	0 psia to 150 psia
	30/150	-30 inHg to 150 psig	**60**	0 psig to 60 psig	**1000**	0 psig to 1,000 psig	**10000**	0 psig to 10,000 psig	**200A**	0 psia to 200 psia
	30/200	-30 inHg to 200 psig	**100**	0 psig to 100 psig	**1500**	0 psig to 1,500 psig	**15000**	0 psig to 15,000 psig	**300A**	0 psia to 300 psia
	30/300	-30 inHg to 300 psig	**150**	0 psig to 150 psig	**2000**	0 psig to 2,000 psig				
			psig = gauge pressure		psia = absolute pressure		Other ranges available on request			
ACCURACIES	**1**	±0.5% full scale (BFSL)			**2**	±0.25% full scale (BFSL)				
OUTPUT SIGNAL	**1**	4 mA to 20 mA, 2-wire								
PROCESS CONNECTIONS	**1**	1/8″ NPT male	**3**	SAE J1926-3:7/16-20 Adjustable			**9**	SAE J1926-1:7/16-20		
	2	1/4″ NPT male	**4**	1/8″ NPT female			**10**	G1/4 male		
ELECTRICAL CONNECTIONS	**1**	36″ cable (connected to option 7)			**6**	1/2″ NPT conduit (with 36″ cable)			**25**	M12 x 1 (4-pin)
	2	4-pin Bendix			**7**	Mini-Hirschmann (DIN EN 175301-803 Form C)			**36**	Integral cable 36″
	3	6-pin Bendix								
OPTION	**ST8**	Threaded Orifice								

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

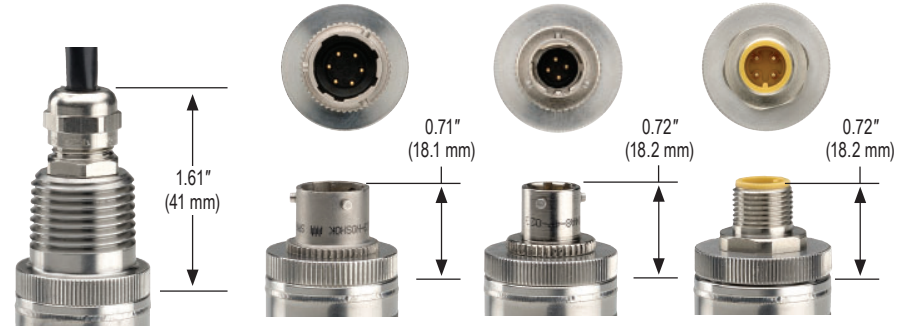
EXAMPLE

100 – 500 – 1 – 1 – 2 – 7 – ST8

Series ..... 100 Series
Pressure range ..... 0 psig to 500 psig
Accuracy ..... ±0.5% full scale (BFSL)
Output signal ..... 4 mA to 20 mA, 2-wire
Process connection ..... 1/4" NPT Male
Electrical connection ..... Mini-Hirschmann
Option ..... Threaded Orifice

Load Limitations
4 mA to 20 mA output

Vmin	=	10V + (.020 x RL)
RL	=	Loop resistance (Ω) RL = RS + RW
RS	=	Sensor resistance (Ω)
RW		Wire resistance (Ω)



1/2″ NPT conduit with 36″ jacketed cable | *** 6 pin Bendix** | *** 4 pin Bendix** | *** M12 x 1 (4-pin)**

Mini-Hirschmann

WIRING				
Wire	**Bendix 4-pin or 6-pin**	**Mini-Hirschmann**	**Cable**	**M12 x 1**
+ Supply	pin A	pin 1	Red	pin 1
+ Output	pin B	pin 2	Black	pin 3

* Note: Mate supplied separately or customer supplied.