

800 SERIES



APPLICATIONS

- Hydraulics & pneumatics
- Power generation
- Pumps & compressors
- Stamping & forming presses
- Water & wastewater

- Compound and standard ranges from 0 psig to 10 psig through 0 psig to 7,500 psig
- 316L Stainless steel wetted parts
- Current and voltage outputs available
- 7 different output configurations available
- Display and electrical connection can be rotated independently
- CE compliant to suppress RFI, EMI and ESD
- RoHS compliant

SPECIFICATIONS

Pressure ranges	Compound and standard ranges from 0 psig to 10 psig through 0 psig to 7,500 psig
Switching parameters	Individually adjustable via external control keys
Number	1 or 2 (PNP or NPN)
Function	N.O., N.C., window, hysteresis (freely adjustable)
Contact rating	250 mA max.
Response time	≤5 ms
Accuracy	≤ 0.5 % of span
Switch point	.25 to 100% of full scale
Hysteresis	Fully adjustable
Transmitter parameters	
Output signal	4 mA to 20 mA or 0 Vdc to 10 Vdc; programmable and freely adjustable
Accuracy	±0.5% of span including non-linearity, hysteresis, zero offset and end value deviation (corresponds to measured error per IEC 61298-2)
Non-repeatability	< 0.1% of span (IEC 61298-2)
Adjustment	Freely scalable within the range of 5:1
Service life	100,000,000 load cycles
Temperature ranges	Compensated 32 °F to 176 °F (0 °C to 80 °C) Media -4 °F to 185 °F (-20 °C to 185 °C) Ambient -4 °F to 176 °F (-20 °C to 80 °C) Storage -4 °F to 158 °F (-20 °C to 70 °C)
Display	14 segment-LED, red 4-digit, height 0.35"
Power requirement*	15 - 35 Vdc
Current consumption	Max. 45 mA for versions without 4-20 mA output signal, Max. 70 mA for versions with 4-20 mA output signal, Total consumption max. 600 mA including switching current
Proof pressure	2 times full scale
Measuring element	<150 psi: 316L Stainless steel ≥150 psi: 316L, PH grade Stainless steel
Housing material	304 Stainless steel
Connection	316 stainless steel
Environmental rating	IP65 and IP67 per IEC 60529
Electromagnetic rating	CE compliant to EMC norm EN 61326:2014/A1:1998 RFI, EMI and ESD protection
Electrical protection	Protected against reverse polarity, over-voltage and short circuit
Shock	> 50 g's according to IEC 60068-2-27
Vibration	> 20 g's according to IEC 60068-2-6
Weight	Approx 0.49 lb.

* 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	800 304 Stainless steel housing							
SWITCH FUNCTIONS	1	2 N.O. or N.C. (PNP or NPN)		5	2 N.O. or N.C. switch (PNP/NPN) with 0 Vdc to 10 Vdc 3-wire output *			
	2	1 N.O. or N.C. (PNP or NPN) with 4 mA to 20 mA 3-wire analog output		6	1 N.O. or N.C. switch (PNP/NPN) with 4 mA to 20 mA/0 Vdc to 10 Vdc 3-wire output 2 **			
	3	1 N.O. or N.C. (PNP or NPN) with 0 Vdc to 10 Vdc 3-wire output		7	2 N.O. or N.C. switch (PNP/NPN) with 4 mA to 20 mA/0 Vdc to 10 Vdc 3-wire output *. **			
	4	2 N.O. or N.C. (PNP or NPN) with 4 mA to 20 mA analog output*						
PROCESS CONNECTIONS	2	1/4" NPT male	10	G 1/4 B male	45	SAE J514 FIG 34B (Non-Adjustable)		
	8	1/2" NPT male	11	G 1/2 B male				
ADJUSTABLE RANGES (Max. working pressure)	14.5vac	-14.5 psig to 0 psig	15	0 psig to 15 psig	1000	0 psig to 1,000 psig	30A	0 psia to 30 psia
	14.5/15	-14.5 psig to 15 psig	25	0 psig to 25 psig	1500	0 psig to 1,500 psig	50A	0 psia to 50 psia
	14.5/30	-14.5 psig to 30 psig	30	0 psig to 30 psig	2000	0 psig to 2,000 psig	100A	0 psia to 100 psia
	14.5/50	-14.5 psig to 50 psig	50	0 psig to 50 psig	3000	0 psig to 3,000 psig	160A	0 psia to 160 psia
	14.5/100	-14.5 psig to 100 psig	100	0 psig to 100 psig	5000	0 psig to 5,000 psig	200A	0 psia to 200 psia
	14.5/160	-14.5 psig to 160 psig	160	0 psig to 160 psig	7500	0 psig to 7,500 psig	300A	0 psia to 300 psia
	14.5/200	-14.5 psig to 200 psig	200	0 psig to 200 psig	10A	0 psia to 10 psia		
	14.5/300	-14.5 psig to 300 psig	300	0 psig to 300 psig	15A	0 psia to 15 psia		
	10	0 psig to 10 psig	500	0 psig to 500 psig	25A	0 psia to 25 psia		
ELECTRICAL CONNECTIONS	2	M12 x 1 (4-pin)	3	M12 x 1 (5-pin), 2 switch and analog output				
OPTIONS	ST8	Threaded Orifice						

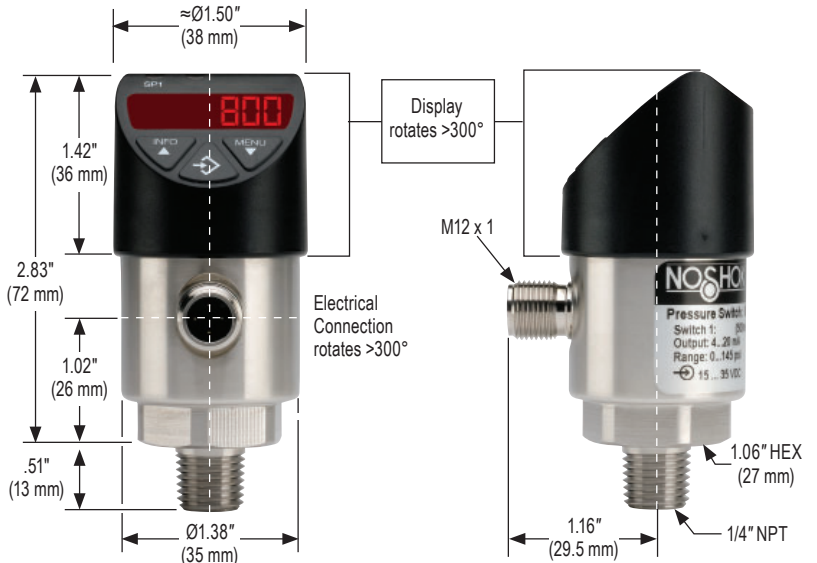
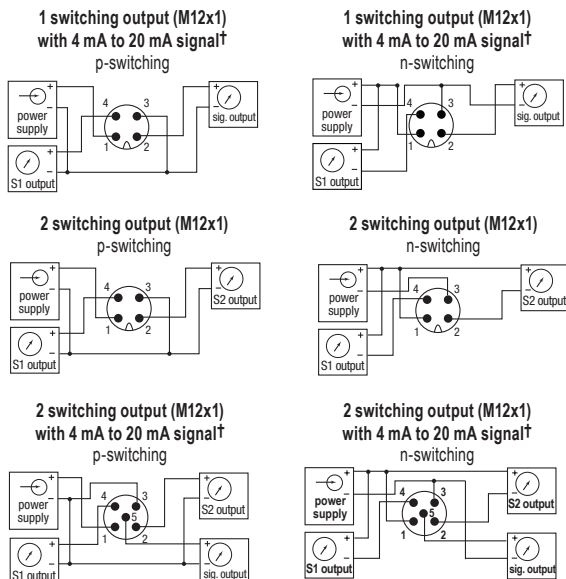
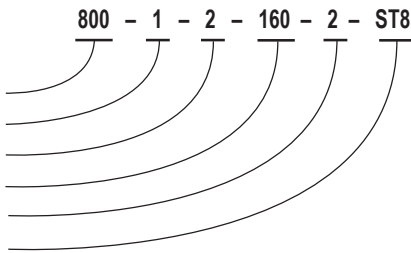
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

* Available only with a M12 x 1 (5-pin) connector

** Can switch between 4 mA to 20 mA / 0 Vdc to 10 Vdc

EXAMPLE

Series 800 Series
Switch function..... 2 N.O. or N.C. (PNP or NPN)
Process connection 1/4" NPT Male
Adjustable range 0 psig to 160 psig
Electrical connection M12 x 1 (4-pin)
Option Threaded Orifice



† Also applies to 0 Vdc to 10 Vdc output