

Electronic Indicating Transmitter/Switch



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 85 °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



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
	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
	14.5/15	-14.5 psig to 15 psig	25	0 psig to 25 psig
	14.5/30	-14.5 psig to 30 psig	30	0 psig to 30 psig
	14.5/50	-14.5 psig to 50 psig	50	0 psig to 50 psig
	14.5/100	-14.5 psig to 100 psig	100	0 psig to 100 psig
	14.5/160	-14.5 psig to 160 psig	160	0 psig to 160 psig
	14.5/200	-14.5 psig to 200 psig	200	0 psig to 200 psig
	14.5/300	-14.5 psig to 300 psig	300	0 psig to 300 psig
	10	0 psig to 10 psig	500	0 psig to 500 psig
			1000	0 psig to 1,000 psig
			1500	0 psig to 1,500 psig
			2000	0 psig to 2,000 psig
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.

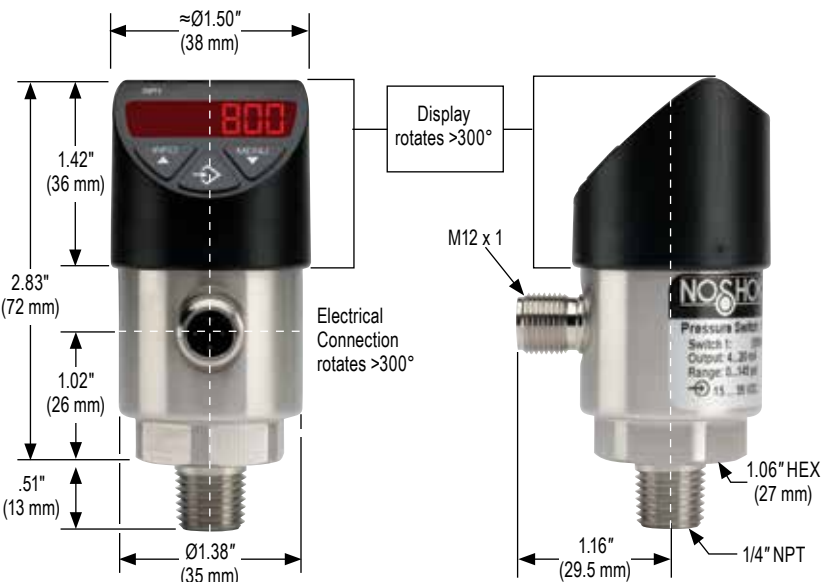
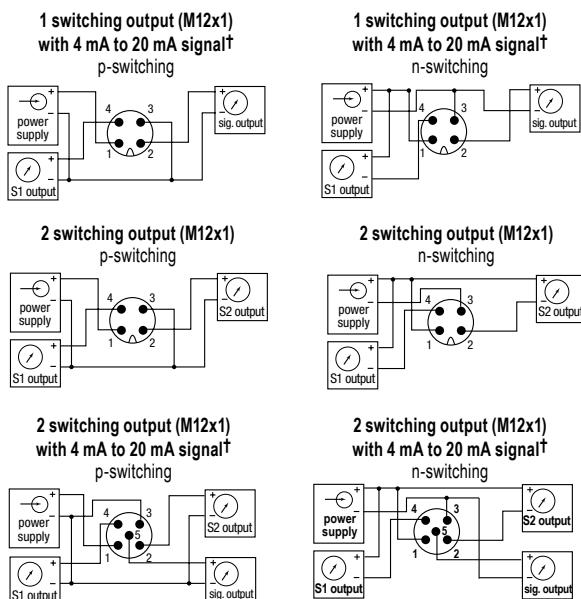
* Available only with a M12 x 1 (5-pin) connector

** 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

800 - 1 - 2 - 160 - 2 - ST8



† Also applies to 0 Vdc to 10 Vdc output