



### FEATURES

- Proven Hall Effect sensor
- Excellent reliability
- Wide variety of pressure ranges, connections and outputs
- Available ratiometric output
- CE compliant

### APPLICATIONS

- OEM equipment
- Pumps and compressors
- Industrial machinery and machine tools
- HVAC systems
- Medical equipment
- Refrigeration systems

## 630 SERIES

- Provide excellent performance and reliability at an economical price
- $\pm 1.0\%$  full scale (BFSL)
- Proven Hall Effect sensor and nearly frictionless transduction method provides exceptional repeatability and reliability
- Wide variety of pressure ranges, connections and outputs available
- Available ratiometric output
- CE compliant to suppress RFI, EMI, and ESD
- Final calibration tests prior to shipment ensures 100% "out of the box" reliability

### SPECIFICATIONS

Output signals	0 Vdc to 5 Vdc, 3-wire; 0 Vdc to 10 Vdc, 3-wire; 1 Vdc to 5 Vdc, 3-wire 0.5 Vdc to 4.5 Vdc, 3-wire ratiometric to the power supply
Accuracy	$\pm 1\%$ full scale (BFSL) (Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)
Hysteresis	$\leq \pm 0.4\%$ full scale
Repeatability	$\leq \pm 0.06\%$ full scale
Stability	$\leq \pm 0.4\%$ full scale for 1 year, non-accumulating
Pressure ranges	Standard gauge ranges from vacuum through 300 psig
Proof pressure	3 times full scale for ranges 0 psi to 2 psi through 0 psi to 100 psi 2 times full scale for ranges 0 psi to 150 psi through 0 psi to 300 psi
Power supply*	8 Vdc to 30 Vdc (0 Vdc to 5 Vdc, 3-wire) 8 Vdc to 30 Vdc (1 Vdc to 5 Vdc, 3-wire) 8 Vdc to 30 Vdc (0.5 Vdc to 4.5 Vdc, 3-wire) 12 Vdc to 30 Vdc (0 Vdc to 10 Vdc, 3-wire) 5 $\pm$ 10% (0.5 Vdc to 4.5 Vdc ratiometric, 3-wire)
Load limitations	$\leq 10,000$ W for 0 Vdc to 10 Vdc, 3-wire $\leq 5,000$ W for 0 Vdc to 5 Vdc, 3-wire; 1 Vdc to 5 Vdc, 3-wire $\leq 4,500$ W for .5 Vdc to 4.5 Vdc, 3-wire ratiometric
Wetted materials	Nickel-Copper diaphragm (ranges up through 0 psig to 30 psig) and Nickel-Beryllium diaphragm (ranges greater than 0 psig to 30 psig) and Copper alloy body
Housing material	Copper alloy with Polyamid top cap
Temperature ranges	Compensated -4 °F to 176 °F (-20 °C to 80 °C) Zero effect $\pm 0.022\%$ full scale/ °F Span effect $\pm 0.011\%$ full scale/ °F Ambient -20 °F to 176 °F (-20 °C to 80 °C) Media -20 °F to 176 °F (-20 °C to 80 °C) Storage -40 °F to 212 °F (-40 °C to 100 °C)
Environmental rating	IP67, NEMA 4X according to EN 60529/IEC529
Electromagnetic rating	CE compliant to EMC norm EN61326: 1997/A1:1998 RFI, EMI and ESD protected
Electrical protection	Reverse polarity, over-voltage and short circuit protection
Weight	Approximately 3.5 oz.

\* Unregulated power supplies

ORDERING INFORMATION			
SERIES	630C (Copper alloy wetted parts)		
PRESSURE RANGES	30vac	-30 inHg to 0 psig	30/200 -30 inHg to 200 psig
	30/15	-30 inHg to 15 psig	30/300 -30 inHg to 300 psig
	30/30	-30 inHg to 30 psig	2 0 psig to 2 psig
	30/60	-30 inHg to 60 psig	5 0 psig to 5 psig
	30/100	-30 inHg to 100 psig	10 0 psig to 10 psig
	30/150	-30 inHg to 150 psig	15 0 psig to 15 psig
		psig = gauge pressure	Other ranges available on special request
ACCURACY	1	±1.0% full scale (full scale typical)	
OUTPUT SIGNALS	2	0 Vdc to 5 Vdc, 3-wire	5 0 Vdc to 10 Vdc, 3-wire
	3	1 Vdc to 5 Vdc, 3-wire	Other outputs available upon special request
PROCESS CONNECTIONS	1	1/8" NPT Male	2 1/4" NPT Male
ELECTRICAL CONNECTIONS	1	36" cable	25 M12 x 1 (4-pin)
OPTION	ORF Threaded Orifice		

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

## EXAMPLE

Series ..... 630C  
Pressure range ..... 0 psig to 300 psig  
Accuracy ..... ±1.0% full scale  
Output signal ..... 0 Vdc to 5 Vdc  
Process connection ..... 1/4" NPT Male  
Electrical connection ..... M12 x 1 (4-pin)  
Option ..... Threaded orifice

630C - 300 - 1 - 2 - 2 - 25 - ORF

## Outline Dimensions



M12 x 1 (4-pin)

## 3-WIRE WIRING

Wiring	M12	Hirschmann	Cable
+ Supply	1	1	Brown
Common	3	3	Blue
+ Output	4	4	Black

