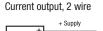
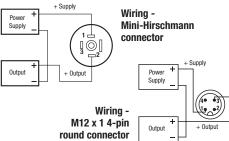
Power

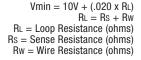
Supply

Output



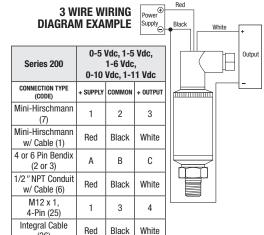


Load Limitations 4 mA to 20 mA Output Only



	→ Kw = Wire	Resistanc	e (onm
	Series 100	4 mA to 20 mA	
	CONNECTION TYPE (CODE)	+ SUPPLY	+ OUTPU
	Mini-Hirschmann (7)	1	2
	Mini-Hirschmann w/ Cable (1)	Red	Black
	4 or 6 Pin Bendix (2 or 3)	А	В
2 WIRE WIRING	1/2" NPT Conduit w/ Cable (6)	Red	Black
DIAGRAM	M12 x 1, 4-Pin (25)	1	3
EXAMPLE	Integral Cable (36)	Red	Black

Voltage output, 3 wire Wiring -Power Supply Mini-Hirschmann **′** 1∐ -] ⊚[.3 ⊊2 connector Output + Output Power + Supply Wiring M12 x 1 4-pin round connector + Output Common



(36)

2 WIRE WIRING DIAGRAM EXAMPLE

0 1 000			
Series 300	4 mA to 20 mA		
CONNECTION TYPE (CODE)	+ SUPPLY	+ OUTPUT	
Hirschmann (7, 8 or 14)	1	2	
Hirschmann w/ Cable (1)	Red	Black	
M12 x 1, 4-Pin (25)	1	3	
Integral Cable (36)	Brown	Blue	

Load Limitations 4 mA to 20 mA Output Only

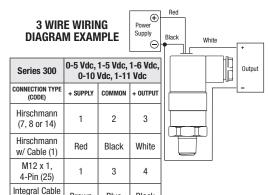
 $Vmin = 10V + (.020 \times RL)$

RL = Rs + Rw

RL = Loop Resistance (ohms)

Rs = Sense Resistance (ohms)

Rw = Wire Resistance (ohms)



Shield Red Black 2 WIRE WIRING Power Supply **DIAGRAM EXAMPLE** Series 612/613 4 mA to 20 mA CONNECTION TYPE + SUPPLY + OUTPUT CASE GROUND Red Black Shield Cable \ 0 ,

Load Limitations 4 mA to 20 mA Output Only

Vmin = $[10V + (.020 \times RL)] - 0.04354$ $\frac{\Omega}{FL}X$

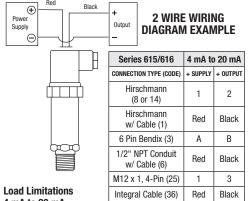
RL = Rs + Rw

cable length

RL = Loop Resistance (ohms)Rs = Sense Resistance (ohms)

Rw = Wire Resistance (ohms)

Power Supply Black 3 WIRE WIRING **DIAGRAM EXAMPLE** 0-5 Vdc, 0-10 Vdc, Series 612/613 0.5 to 2.5 Vdc CASE CONNECTION SUPPLY COMMON + OUTPUT TYPE GROUND Brown Green White Grav Cable



4 mA to 20 mA **Output Only**

3 WIRE WIRING $Vmin = 10V + (.020 \times RL)$ **DIAGRAM EXAMPLE** RL = Rs + Rw

Power

Supply

Black | White

Black

RL = Loop Resistance (ohms)Rs = Sense Resistance (ohms)

Rw = Wire Resistance (ohms)

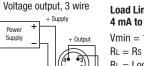
Integral Cable (36) Red

0-5 Vdc, 1-5 Vdc, Series 615/616 1-6 Vdc. 0-10 Vdc, 1-11 Vdc CONNECTION TYPE + SUPPLY COMMON + OUTPUT (CODE) Hirschmann (8 or 14) Hirschmann Red White Black w/ Cable (1) 6 Pin Bendix (3) 1/2" NPT Conduit Black | White w/ Cable (6) M12 x 1, 4-Pin (25)

Current output, 2 wire Power Supply Output

Wiring - M12 x 1 4-pin round connector

Series 640	4 mA to 20 mA	
CONNECTION Type (Code)	+ SUPPLY	+ OUTPUT
M12 x 1, 4-Pin (25)	1	3
Integral Cable (1)	Brown	Blue



Load Limitations 4 mA to 20 mA Output Only

 $Vmin = 10V + (.020 \times RL)$

RL = Rs + Rw

R_L = Loop Resistance (ohms)

Rs = Sense Resistance (ohms)

Rw = Wire Resistance (ohms)

0-5 Vdc, 0-10 Vdc, 0-20 mA Series 640 CONNECTION TYPE (CODE) + SUPPLY COMMON + OUTPUT M12 x 1, 4-Pin (25) Integral Cable (1) Brown Blue Black





Brown

(36)

Blue

Black



SERIES 660

Load Limitations

RL = Rs + Rw

4 mA to 20 mA Output Only

RL = Loop Resistance (ohms)

Rs = Sense Resistance (ohms)

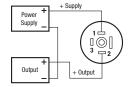
Rw = Wire Resistance (ohms)

Vmin = 10V + (.020 x RL)

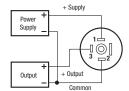
SERIES 800

Wiring - Mini-Hirschmann connector

Current output, 2 wire

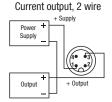


Voltage output, 3 wire



Series 660	4 mA to 20 mA		
CONNECTION TYPE (CODE)	+ SUPPLY	+ OUTPUT	
Mini-Hirschmann (7)	1	2	
Mini-Hirschmann w/ Cable (1)	Red	Black	
M12 x 1, 4-Pin (25)	1	3	
Integral Cable (36)	Brown	Green	

Wiring - M12 x 1 4-pin round connector

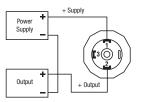


Voltage output, 3 wire



Series 660 1-5 V		Vdc, 0.1-10 Vdc	
CONNECTION TYPE (CODE)	+ SUPPLY	COMMON	+ OUTPUT
Mini-Hirschmann (7)	1	2	3
Mini-Hirschmann w/ Cable (1)	Red	Black	White
M12 x 1, 4-Pin (25)	1	3	4
Integral Cable (36)	Brown	Green	White

4 mA to 20 mA, 2 wire



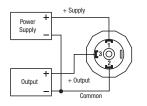
Load Limitations 4 mA to 20 mA Output Only

www.itn.com

Vmin = 10V + (.020 x RL)RL = Rs + Rw

RL = Loop Resistance (ohms) Rs = Sense Resistance (ohms)

Rw = Wire Resistance (ohms)



0 Vdc to 10 Vdc, 3 wire

Series 800	4 mA to 20 mA	
CONNECTION TYPE (CODE)	+ SUPPLY	+ OUTPUT
Hirschmann (8 or 14)	1	2
Hirschmann w/ Cable (1)	Red	Black
M12 x 1, 4-Pin (25)	1	3

Series 800	0-10 Vdc		
CONNECTION TYPE (CODE)	+ SUPPLY	COMMON	+ OUTPUT
Hirschmann (8 or 14)	1	2	3
Hirschmann w/ Cable (1)	Red	Black	White
M12 x 1, 4-Pin (25)	1	3	4

Installation:

NOSHOK pressure transmitters/transducers may be mounted in any plane with negligible effect on performance. Although these units are designed and manufactured to withstand substantial shock and vibration, it is recommended that they be mounted in an area of minimal vibration. Always use a wrench on the wrench flats when installing. NEVER use a pipe wrench on the housing or in the area of the electrical connection.

Maintenance/Calibration:

NOSHOK pressure transmitters/transducers require no maintenance. Recalibration is dependent on the users Quality Assurance Program. If no program is in place, NOSHOK recommends a 1 year cycle.

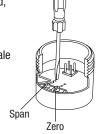
Alignment Procedure (applies only to 100, 200, 615/616, and 640 series):

Using a pressure source and meter with adequate accuracy, perform the following steps:

Open sensor

NWD 08-7

- With no pressure applied, adjust the "Z" potentiometer for the correct Zero output
- Apply the correct full scale pressure to the unit
- Adjust the "S" potentiometer for the correct Span output



NOSHOK TRANSMITTERS TRANSDUCERS



Wiring Diagrams & Electrical **Connections for:**

> 100, 200, 300, 612, 613, 615/616, 640, 660, and 800 Series





