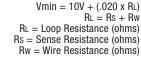


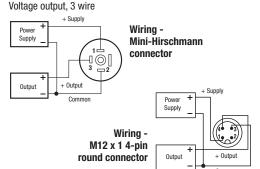
Black

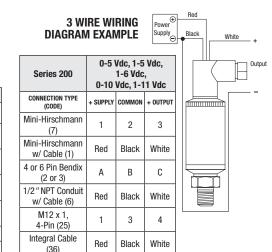
Load Limitations 4 mA to 20 mA Output Only



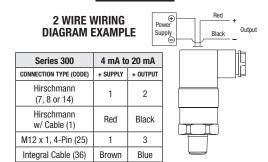
	☐ Rw = Wire	Resistanc	e (ohms
	Series 100	4 mA to 20 mA	
	CONNECTION TYPE (CODE)	+ SUPPLY	+ OUTPUT
	Mini-Hirschmann (7)	1	2
	Mini-Hirschmann w/ Cable (1)	Red	Black
	4 or 6 Pin Bendix (2 or 3)	А	В
2 WIRE WIRING	1/2" NPT Conduit w/ Cable (6)	Red	Black
DIAGRAM	M12 x 1, 4-Pin (25)	1	3
EXAMPLE	Integral Cable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

SERIES 200





SERIES 300



Load Limitations 4 mA to 20 mA Output Only

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

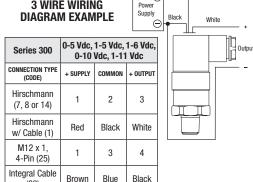
RL = Rs + Rw

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

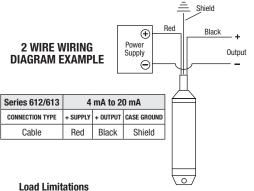
Rw = Wire Resistance (ohms)

3 WIRE WIRING

(36)



SERIES 612 & 613



4 mA to 20 mA Output Only

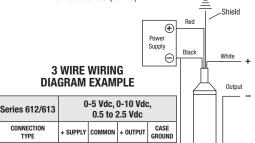
Vmin = $[10V + (.020 \times RL)] - 0.04354$ $\frac{\Omega}{FL}X$

cable length

RL = Rs + Rw

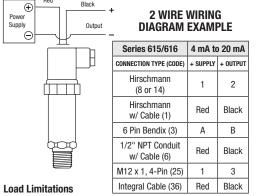
RL = Loop Resistance (ohms) Rs = Sense Resistance (ohms)

Rw = Wire Resistance (ohms)



Red | Black | White | Shield

SERIES 615/616



3 WIRE WIRING

DIAGRAM EXAMPLE

4 mA to 20 mA **Output Only**

Vmin = 10V + (.020 x RL)

RL = Rs + Rw

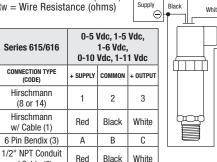
w/ Cable (6)

M12 x 1, 4-Pin (25)

Integral Cable (36) Red Black White

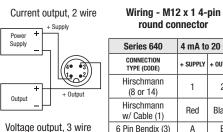
RL = Loop Resistance (ohms)

Rs = Sense Resistance (ohms) Rw = Wire Resistance (ohms)



3

SERIES 640



round connector

Series 640	4 mA to 20 mA	
CONNECTION TYPE (CODE)	+ SUPPLY	+ OUTPUT
Hirschmann (8 or 14)	1	2
Hirschmann w/ Cable (1)	Red	Black
6 Pin Bendix (3)	Α	В
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)

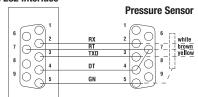
RS 232 Interface

Power

Supply

Output

Output



·			
Series 640	0-5 Vdc, 0-10 Vdc, 0-20 mA		
CONNECTION TYPE (CODE)	+ SUPPLY	COMMON	+ OUTPUT
Hirschmann (8 or 14)	1	2	3
rschmann w/ Cable (1)	Red	Black	White
6 Pin Bendix (3)	Α	В	С
M12 x 1, 4-Pin (25)	1	3	4
Integral Cable (36)	Brown	Black	Blue

Cable

SERIES 660

Load Limitations

 $R_1 = R_S + R_W$

4 mA to 20 mA Output Only

RL = Loop Resistance (ohms)

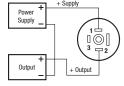
Rs = Sense Resistance (ohms)

Rw = Wire Resistance (ohms)

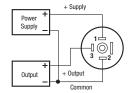
 $Vmin = 10V + (.020 \times RL)$

Wiring - Mini-Hirschmann connector

Current output, 2 wire



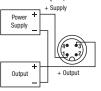
Voltage output, 3 wire



4 mA to	20 mA
+ SUPPLY	+ OUTPU
1	2
Red	Black
1	3
Brown	Green
	1 Red 1

Wiring - M12 x 1 4-pin round connector

Current output, 2 wire



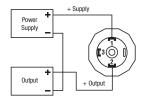
Voltage output, 3 wire



Series 660	1-5 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

SERIES 800

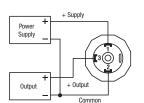
4 mA to 20 mA, 2 wire



Load Limitations 4 mA to 20 mA Output Only Vmin = 10V + (.020 x RL)

 $R_{I} = R_{S} + R_{W}$

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.

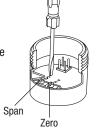
Maintenance/Calibration:

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
- 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



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NWD 08-5