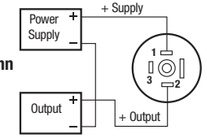
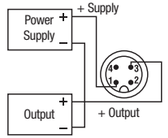
SERIES 100

Current output, 2 wire

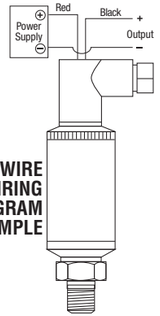
Wiring - Mini-Hirschmann connector



Wiring - M12 x 1 4-pin round connector



2 WIRE WIRING DIAGRAM EXAMPLE



Load Limitations
4 mA to 20 mA Output Only

Vmin = 10V + (.020 x RL)
RL = Rs + Rw
RL = Loop Resistance (ohms)
Rs = Sense Resistance (ohms)
Rw = Wire Resistance (ohms)

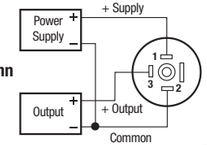
Series 100	4 mA to 20 mA 2-Wire
+ Supply	Red/1/A/1/Brown
+ Output	Black/2/B/3/Blue

Example: Red/1/A/1 = Applicable color wire/din plug number/bendix pin/M12 x 1 pin number/M12 color wire

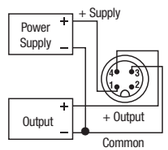
SERIES 200

Voltage output, 3 wire

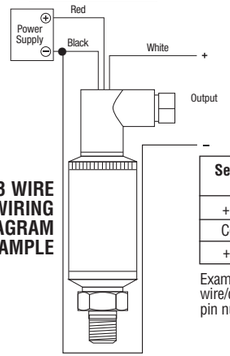
Wiring - Mini-Hirschmann connector



Wiring - M12 x 1 4-pin round connector



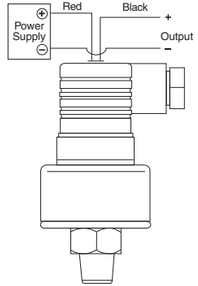
3 WIRE WIRING DIAGRAM EXAMPLE



Series 200	0-5, 1-6, 0-10 1 Vdc to 11 Vdc 3-WIRE
+ Supply	Red/1/A/1/Brown
Common	Black/2/B/3/Blue
+ Output	White/3/C/4/Black

Example: Red/1/A/1 = Applicable color wire/din plug number/bendix pin/M12 x 1 pin number/M12 color wire

SERIES 600



2 WIRE WIRING DIAGRAM EXAMPLE

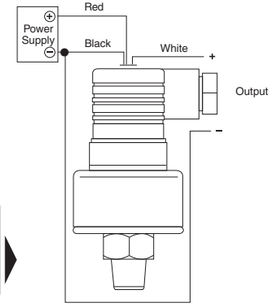
Load Limitations
4 mA to 20 mA Output Only

Vmin = 10V + (.020 x RL)
RL = Rs + Rw
RL = Loop Resistance (ohms)
Rs = Sense Resistance (ohms)
Rw = Wire Resistance (ohms)

Series 600	4 mA to 20 mA 2-Wire
+ Supply	Red/1
+ Output	Black/2

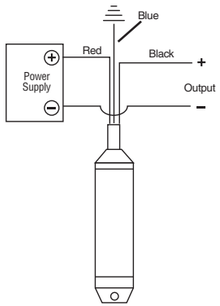
Series 600	Voltage Output
+ Supply	Red/1
Common	Black/2
+ Output	White/3

Example: Red/1 = Applicable color wire/din plug number.



3 WIRE WIRING DIAGRAM EXAMPLE

SERIES 612



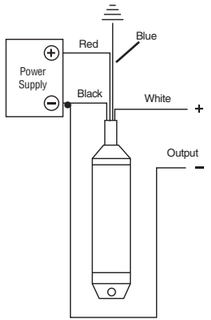
2 WIRE WIRING DIAGRAM EXAMPLE

Load Limitations
4 mA to 20 mA Output Only

Vmin = [10V + (.020 x RL)] - 0.04354 $\frac{\Omega}{ft}$ x cable length
RL = Rs + Rw
RL = Loop Resistance (ohms)
Rs = Sense Resistance (ohms)
Rw = Wire Resistance (ohms)

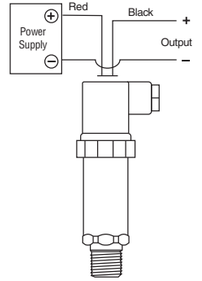
Series 612	4 mA to 20 mA 2-Wire
+ Supply	Red
+ Output	Black
Case ground	Blue

Series 612	Voltage Output
+ Supply	Red
Common	Black
+ Output	White
Case ground	Blue



3 WIRE WIRING DIAGRAM EXAMPLE

SERIES 615/616



2 WIRE WIRING DIAGRAM EXAMPLE

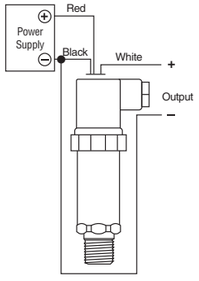
Load Limitations
4 mA to 20 mA Output Only

Vmin = 10V + (.020 x RL)
RL = Rs + Rw
RL = Loop Resistance (ohms)
Rs = Sense Resistance (ohms)
Rw = Wire Resistance (ohms)

Series 615/616	4 mA to 20 mA 2-Wire
+ Supply	Red/1/A/1/1/Brown
+ Output	Black/2/B/2/3/Blue

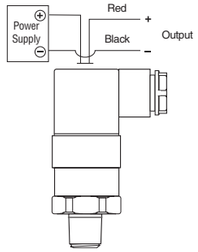
Series 615/616	Voltage Output
+ Supply	Red/1/A/1/1/Brown
Common	Black/2/B/2/3/Blue
+ Output	White/3/C/3/4/Black

Example: Red/1/A/1/1 = Applicable color wire/din plug number/bendix pin/junction box pin/M12 x 1 pin number/M12 color wire



3 WIRE WIRING DIAGRAM EXAMPLE

SERIES 300



2 WIRE WIRING DIAGRAM EXAMPLE

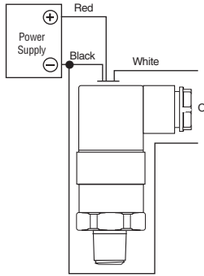
Load Limitations
4 mA to 20 mA Output Only

Vmin = 10V + (.020 x RL)
RL = Rs + Rw
RL = Loop Resistance (ohms)
Rs = Sense Resistance (ohms)
Rw = Wire Resistance (ohms)

Series 300	4 mA to 20 mA 2-Wire
+ Supply	Red/1/1/1/Brown
+ Output	Black/2/2/3/Blue

Series 300	Voltage Output
+ Supply	Red/1/1/1/Brown
Common	Black/2/2/3/Blue
+ Output	White/3/3/4/Black

Example: Red/1/1/1 = Applicable color wire/din plug number/junction box pin/ M12 x 1 pin number/M12 color wire

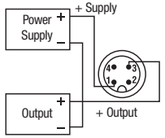


3 WIRE WIRING DIAGRAM EXAMPLE

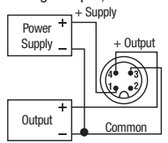
SERIES 640

Wiring - M12 x 1 4-pin round connector

Current output, 2 wire



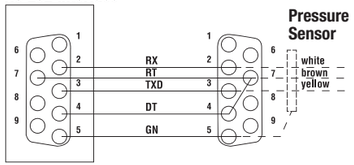
Voltage output, 3 wire



Load Limitations
4 mA to 20 mA Output Only

Vmin = 10V + (.020 x RL)
RL = Rs + Rw
RL = Loop Resistance (ohms)
Rs = Sense Resistance (ohms)
Rw = Wire Resistance (ohms)

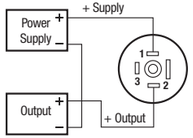
RS 232 Interface



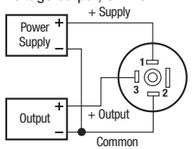
SERIES 660

Wiring - Mini-Hirschmann connector

Current output, 2 wire



Voltage output, 3 wire



Load Limitations
4 mA to 20 mA Output Only

Vmin = 10V + (.020 x RL)
RL = Rs + Rw
RL = Loop Resistance (ohms)
Rs = Sense Resistance (ohms)
Rw = Wire Resistance (ohms)

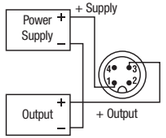
Series 660	4 mA to 20 mA 2-Wire
+ Supply	Brown/1/1/Brown
+ Output	Green/2/3/Blue

Series 660	Voltage Output
+ Supply	Brown/1/1/Brown
Common	Green/2/3/Blue
+ Output	White/3/4/Black

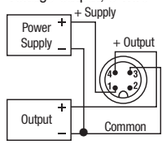
Example: Brown/1/1 = Applicable color wire/din plug number M12 x 1 Pin number/M12 color wire

Wiring - M12 x 1 4-pin round connector

Current output, 2 wire



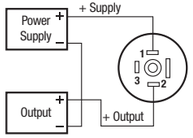
Voltage output, 3 wire



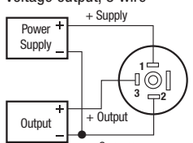
SERIES 680

Wiring - Mini-Hirschmann connector

Current output, 2 wire



Voltage output, 3 wire



Load Limitations
4 mA to 20 mA Output Only

Vmin = 10V + (.020 x RL)
RL = Rs + Rw
RL = Loop Resistance (ohms)
Rs = Sense Resistance (ohms)
Rw = Wire Resistance (ohms)

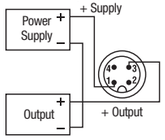
Series 680	4 mA to 20 mA 2-Wire
+ Supply	Red/1/1/Brown
+ Output	Black/2/3/Blue

Series 680	Voltage Output
+ Supply	Red/1/1/Brown
Common	Black/2/3/Blue
+ Output	White/3/4/Black

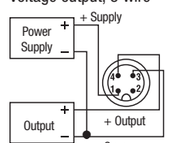
Example: Red/1/1 = Applicable color wire/din plug number M12 x 1 Pin number/M12 color wire

Wiring - M12 x 1 4-pin round connector

Current output, 2 wire

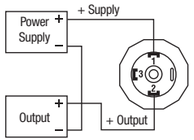


Voltage output, 3 wire



SERIES 800

4 mA to 20 mA, 2 wire



Load Limitations
4 mA to 20 mA Output Only

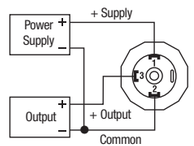
Vmin = 10V + (.020 x RL)
RL = Rs + Rw
RL = Loop Resistance (ohms)
Rs = Sense Resistance (ohms)
Rw = Wire Resistance (ohms)

Series 800	4 mA to 20 mA 2-Wire
+ Supply	Red/1
+ Output	Black/2

Series 800	Voltage Output
+ Supply	Red/1
Common	Black/2
+ Output	White/3

Example: Red/1 = Applicable color wire/din plug number.

0 Vdc to 10 Vdc, 3 wire



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.

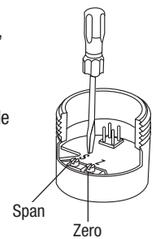
Maintenance/Calibration:

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):

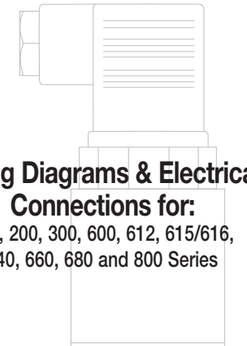
Using a pressure source and meter with adequate accuracy, perform the following steps:

- 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



NWD 08-2

NOSHOK TRANSMITTERS TRANSDUCERS



Wiring Diagrams & Electrical Connections for:

100, 200, 300, 600, 612, 615/616, 640, 660, 680 and 800 Series

The Instrumentation Company

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