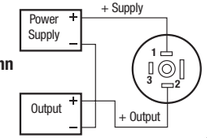
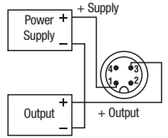
KPK

Current output, 2 wire

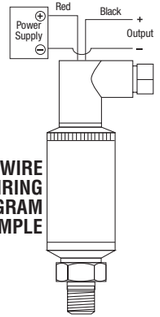
Wiring - Mini-Hirschmann connector



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)

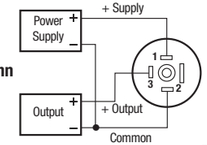
KPK	4 mA to 20 mA 2-Wire
+ Supply	Red/1/A/1/Brown
+ Output	Black/2/B/3/Blue

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

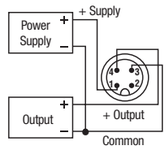
KPK

Voltage output, 3 wire

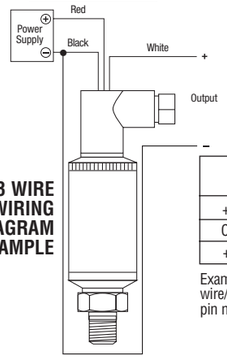
Wiring - Mini-Hirschmann connector



Wiring - M12 x 1 4-pin round connector



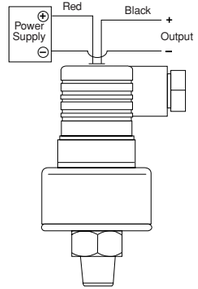
3 WIRE WIRING DIAGRAM EXAMPLE



KPK	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

KPO



2 WIRE WIRING DIAGRAM EXAMPLE

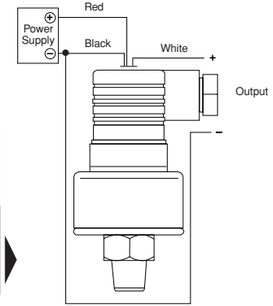
Load Limitations
4 mA to 20 mA Output Only

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

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

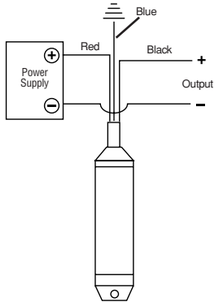
KPO	Voltage Output
+ Supply	Red/1
Common	Black/2
+ Output	White/3

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



3 WIRE WIRING DIAGRAM EXAMPLE

KPW



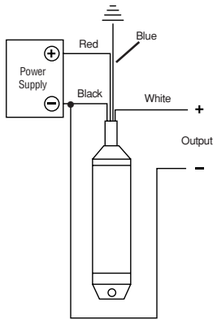
2 WIRE WIRING DIAGRAM EXAMPLE

Load Limitations
4 mA to 20 mA Output Only

Vmin = [10V + (.020 x RL)] - 0.137 ft x cable length
RL = Rs + Rw
RL = Loop Resistance (ohms)
Rs = Sense Resistance (ohms)
Rw = Wire Resistance (ohms)

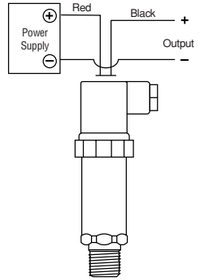
KPW	4 mA to 20 mA 2-Wire
+ Supply	Red
+ Output	Black
Case ground	Blue

KPW	Voltage Output
+ Supply	Red
Common	Black
+ Output	White
Case ground	Blue



3 WIRE WIRING DIAGRAM EXAMPLE

KPG



2 WIRE WIRING DIAGRAM EXAMPLE

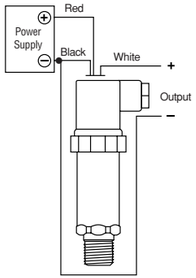
Load Limitations
4 mA to 20 mA Output Only

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

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

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

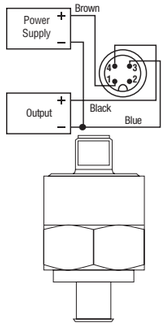
Example: Red/1/A/1/1 = Applicable color wire/din plug number/bendix pin/junction box pin/M12 x 1 pin number/M12 color wire



3 WIRE WIRING DIAGRAM EXAMPLE

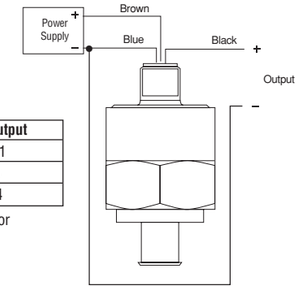
KPC

Wiring - M12 x 1 4-pin round connector



KPC	Voltage Output
+ Supply	Brown/1
Common	Blue/3
+ Output	Black/4

Example: Brown/1 = Applicable color wire/M12 x 1 pin number.

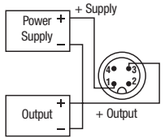


WIRING DIAGRAM EXAMPLE

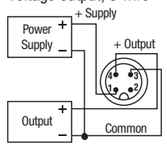
KPB

Wiring - M12 x 1 4-pin round connector

Current output, 2 wire



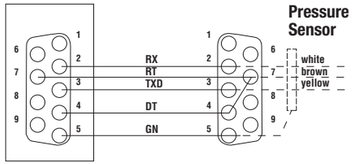
Voltage output, 3 wire



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

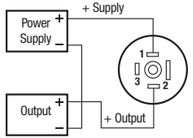


Pressure Sensor

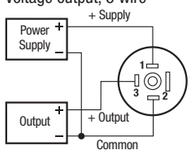
KPL

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)

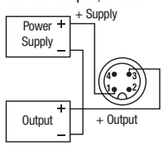
KPL	4 mA to 20 mA 2-Wire
+ Supply	Brown/1/1/Brown
+ Output	Green/2/3/Blue

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

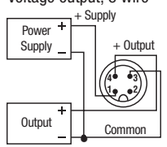
Example: Brown/1/1 = Applicable color wire/din plug number M12 x 1 Pin number/M12 color wire

Wiring - M12 x 1 4-pin round connector

Current output, 2 wire



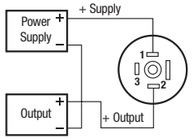
Voltage output, 3 wire



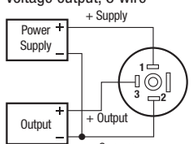
KPT

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)

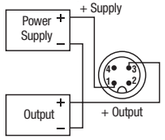
KPT	4 mA to 20 mA 2-Wire
+ Supply	Red/1/1/Brown
+ Output	Black/2/3/Blue

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

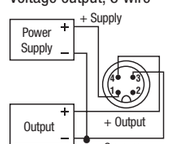
Example: Red/1/1 = Applicable color wire/din plug number M12 x 1 Pin number/M12 color wire

Wiring - M12 x 1 4-pin round connector

Current output, 2 wire

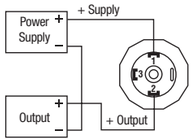


Voltage output, 3 wire



KTT

4 mA to 20 mA, 2 wire



Load Limitations
4 mA to 20 mA Output Only

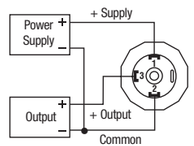
Vmin = 10V + (.020 x RL)
RL = Rs + Rw
RL = Loop Resistance (ohms)
Rs = Sense Resistance (ohms)
Rw = Wire Resistance (ohms)

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

KTT	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:

KOBOLD 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.

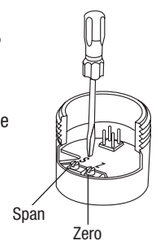
Maintenance/Calibration:

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

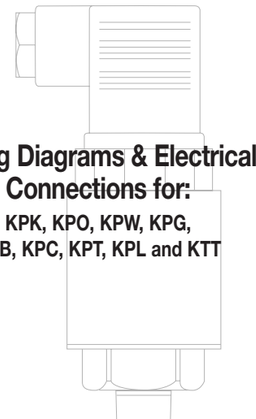
Alignment Procedure (applies only to KPK, KPG, and KPB series):

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



KOBOLD TRANSMITTERS TRANSDUCERS



Wiring Diagrams & Electrical Connections for:

KPK, KPO, KPW, KPG, KPB, KPC, KPT, KPL and KTT

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KWD 04