



User Documentation

Influx Product Pinouts

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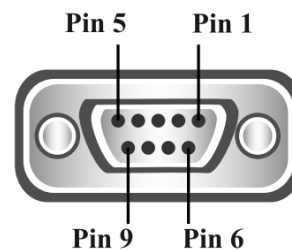
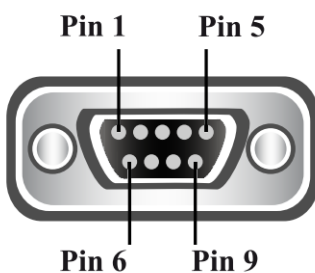
1 The K Box (INF 2201)



1.1 The CAN Connectors

(2x DB9 CAN Connectors)

The CAN Connectors are 1x Male and 1x Female 9 pin Standard D Type Connectors with nuts.



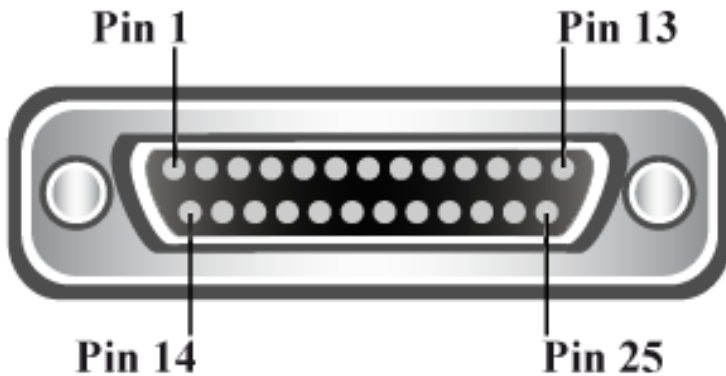
Pin No	Pin Function
Pin 1	Digital Output 4 or +4.5V Instrumentation Supply Voltage, ensure that current draw is not more than 100mA
Pin 2	CAN Bus Low Signal
Pin 3	Ground
Pin 4	Digital Input or Output 1 - When used as an input do not apply voltages outside of the 0 to +12V range, when used as an Output ensure that current draw is not more than 100mA. More information on use of this pin can be found in Appendix 2 and 3
Pin 5	Power Ground
Pin 6	Digital Input or Output 3
Pin 7	CAN Bus High Signal
Pin 8	Digital Input or Output 2 - When used as an input do not apply voltages outside of the 0 to +12V range, when used as an Output ensure that current draw is not more than 100mA. More information on use of this pin can be found in Appendix 2 and 3
Pin 9	4.5-36V Supply Voltage

Warning

- Each End of the CAN bus must be terminated with a 120ohm resistor accross CAN H and CAN L.

1.2 The ADC Connector

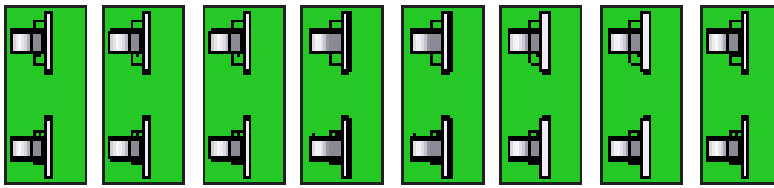
The ADC Connector is a Male 25 pin Standard D Type Connector with nuts.



Pin No	Pin Function
Pin 1	+24V Output - ensure that current draw is not more than 75mA
Pin 2	+5V Output - ensure that current draw is not more than 75mA
Pin 5	Analog Ground
Pin 6	Analog Input 0 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 7	Analog Input 1 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 8	Analog Input 2 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 9	Analog Input 3 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 10	Analog Input 4 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 11	Analog Input 5 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 12	Analog Input 6 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 13	Analog Input 7 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 14	Ground Out
Pin 15	Ground Out
Pin 17	Analog Ground
Pin 18	Analog Input 0 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 19	Analog Input 1 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 20	Analog Input 2 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 21	Analog Input 3 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 22	Analog Input 4 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 23	Analog Input 5 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 24	Analog Input 6 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 25	Analog Input 7 - ve do not apply voltages outside of the voltage range the K-Box is configured for.

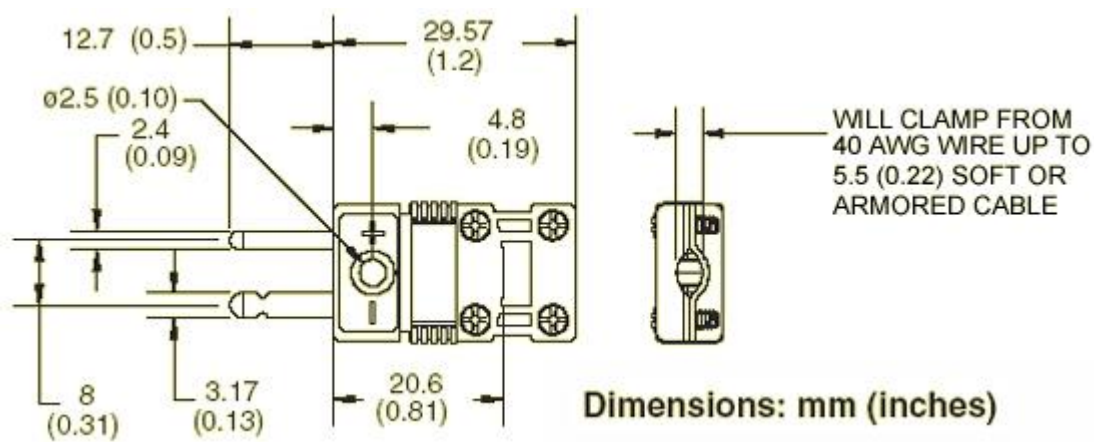
1.3 The Thermocouple Connectors

The Thermocouple Connectors on the K-Box are miniature size flat type sockets.



IEC Connector	Pin Function
Top	+ Signal from the Thermocouple
Bottom	K Signal from the Thermocouple

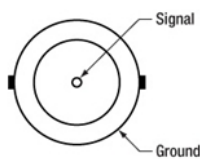
The dimensions of the Male Flat Type Miniature Size Thermocouple Plug that you would plug into it is as follows:



2 The K IEPE Add On (INF 2213)

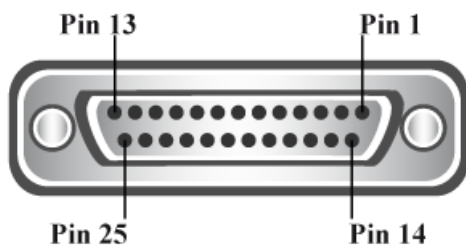


2.1 The IEPE BNC Connector



2.2 The K IEPE Connector

The K IEPE Connector is a Female 25 pin Standard D Type Connector with nuts.



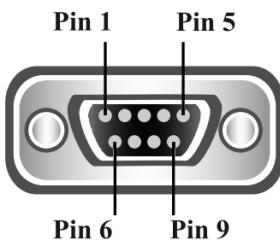
Pin No	Pin Function
Pin 1	+24V Output - ensure that current draw is not more than 75mA
Pin 2	+5V Output - ensure that current draw is not more than 75mA
Pin 5	Analog Ground
Pin 6	Analog Input 0 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 7	Analog Input 1 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 8	Analog Input 2 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 9	Analog Input 3 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 10	Analog Input 4 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 11	Analog Input 5 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 12	Analog Input 6 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 13	Analog Input 7 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 14	Ground Out
Pin 15	Ground Out
Pin 17	Analog Ground
Pin 18	Analog Input 0 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 19	Analog Input 1 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 20	Analog Input 2 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 21	Analog Input 3 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 22	Analog Input 4 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 23	Analog Input 5 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 24	Analog Input 6 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 25	Analog Input 7 - ve do not apply voltages outside of the voltage range the K-Box is configured for.

3 The K PT Add On (INF 2212)



3.1 The Channel 0 & 1 Connector

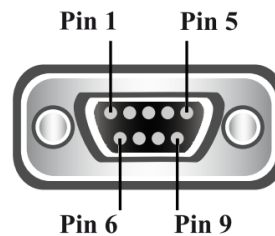
The Channel Connector is a male 9 pin Standard D Type Connector with nuts.



Pin No	Pin Function
Pin 1	Vs 1+
Pin 2	Vs 1-
Pin 3	Ex 1-
Pin 4	Ex 1+
Pin 5	GNDout
Pin 6	Vs 0+
Pin 7	Vs 0-
Pin 8	Ex 0-
Pin 9	Ex 0+

3.2 The Channel 2 & 3 Connector

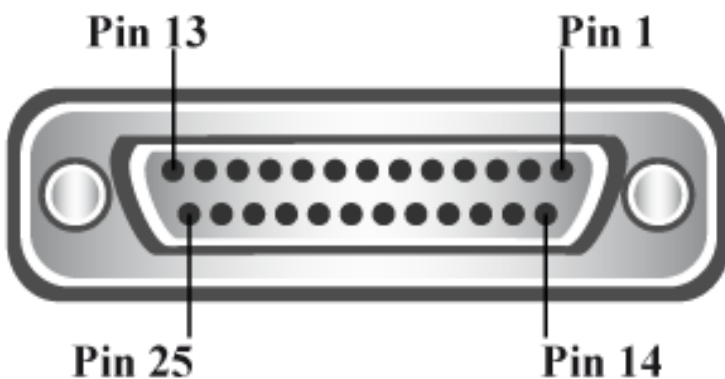
The Channel Connector is a male 9 pin Standard D Type Connector with nuts.



Pin No	Pin Function
Pin 1	Vs 3+
Pin 2	Vs 3-
Pin 3	Ex 3-
Pin 4	Ex 3+
Pin 5	GNDout
Pin 6	Vs 2+
Pin 7	Vs 2-
Pin 8	Ex 2-
Pin 9	Ex 2+

3.3 The K PT Connector

The K PT Connector is a Female 25 pin Standard D Type Connector with nuts.



Connect Only to K_Box ADC Connector.

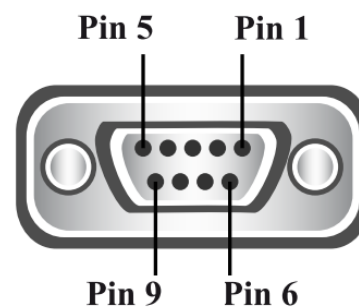
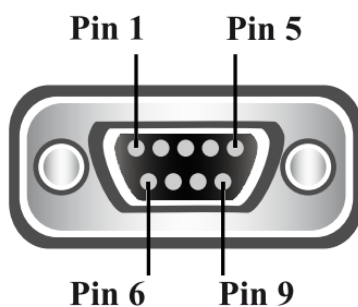
4 The K AN8 (INF 2210)



4.1 The CAN Connectors

(2x DB9 CAN Connectors)

The CAN Connectors are 1x Male and 1x Female 9 pin Standard D Type Connectors with nuts.



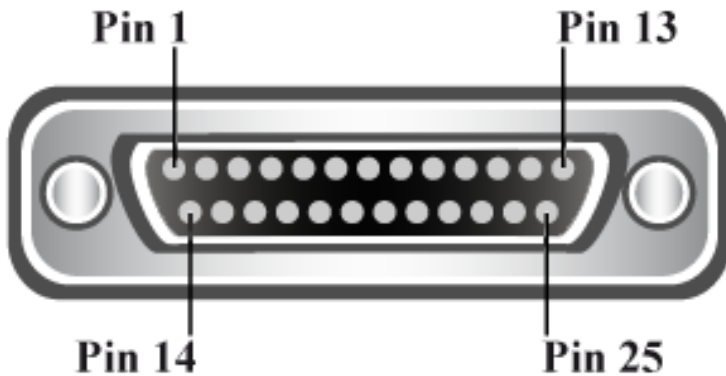
Pin No	Pin Function
Pin 1	Digital Output 4 or +4.5V Instrumentation Supply Voltage, ensure that current draw is not more than 100mA
Pin 2	CAN Bus Low Signal
Pin 3	Ground
Pin 4	Digital Input or Output 1 - When used as an input do not apply voltages outside of the 0 to +12V range, when used as an Output ensure that current draw is not more than 100mA. More information on use of this pin can be found in Appendix 2 and 3
Pin 5	Power Ground
Pin 6	Digital Input or Output 3
Pin 7	CAN Bus High Signal
Pin 8	Digital Input or Output 2 - When used as an input do not apply voltages outside of the 0 to +12V range, when used as an Output ensure that current draw is not more than 100mA. More information on use of this pin can be found in Appendix 2 and 3
Pin 9	4.5-36V Supply Voltage

Warning

- Each End of the CAN bus must be terminated with a 120ohm resistor accross CAN H and CAN L.

4.2 The ADC Connector

The ADC Connector is a Male 25 pin Standard D Type Connector with nuts.

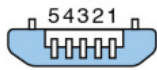


Pin No	Pin Function
Pin 1	+24V Output - ensure that current draw is not more than 75mA
Pin 2	+5V Output - ensure that current draw is not more than 75mA
Pin 5	Analog Ground
Pin 6	Analog Input 0 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 7	Analog Input 1 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 8	Analog Input 2 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 9	Analog Input 3 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 10	Analog Input 4 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 11	Analog Input 5 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 12	Analog Input 6 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 13	Analog Input 7 + ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 14	Ground Out
Pin 15	Ground Out
Pin 17	Analog Ground
Pin 18	Analog Input 0 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 19	Analog Input 1 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 20	Analog Input 2 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 21	Analog Input 3 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 22	Analog Input 4 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 23	Analog Input 5 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 24	Analog Input 6 - ve do not apply voltages outside of the voltage range the K-Box is configured for.
Pin 25	Analog Input 7 - ve do not apply voltages outside of the voltage range the K-Box is configured for.

5 The KTC-XX Devices (INF 2204/5/6)



5.1 The Micro B USB Connector



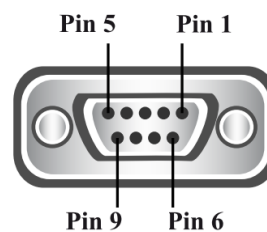
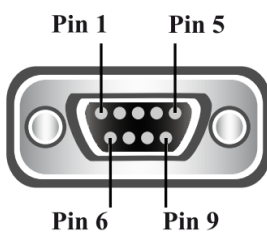
Micro-B

Pin No	Pin Function
Pin 1	VBUS USB supply voltage 5V
Pin 2	Data- line of USB this signal utilises NRZI line coding
Pin 3	Data+ line of USB this signal utilises NRZI line coding
Pin 4	ID mode detect
Pin 5	GND

5.2 The CAN Connectors

(2x DB9 CAN Connectors)

The CAN Connectors are 1x Male and 1x Female 9 pin Standard D Type Connectors with nuts.



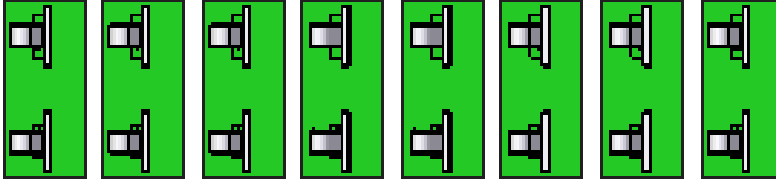
Pin No	Pin Function
Pin 1	NC
Pin 2	CAN Bus Low Signal
Pin 3	Ground
Pin 4	NC
Pin 5	Power Ground
Pin 6	NC
Pin 7	CAN Bus High Signal
Pin 8	NC
Pin 9	4.5-36V Supply Voltage

Warning

- Each end of the CAN bus must be terminated with a 120 ohm resistor across CAN H and CAN L.

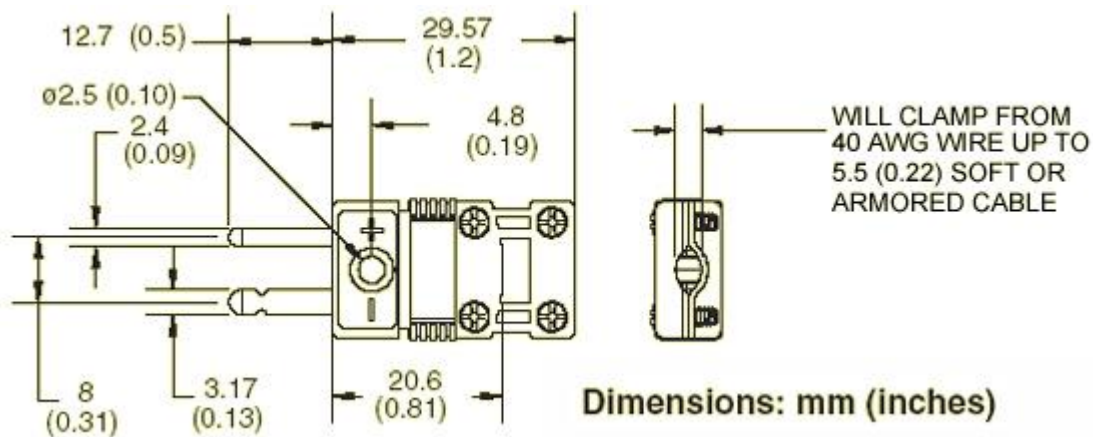
5.3 The Thermocouple Connectors

The Thermocouple Connectors on the K-Box are miniature size flat type sockets.



IEC Connector	Pin Function
Top	+ Signal from the Thermocouple
Bottom	K Signal from the Thermocouple

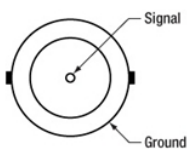
The dimensions of the Male Flat Type Miniature Size Thermocouple Plug that you would plug into it is as follows:



6 The K Volt (INF 2209)



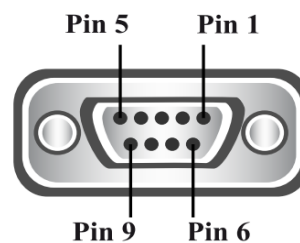
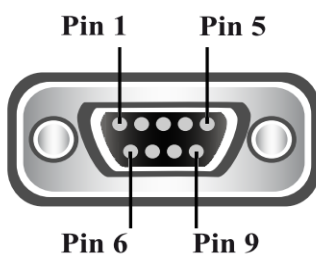
6.1 The BNC Output Connectors



6.2 The CAN Connectors

(2x DB9 CAN Connectors)

The CAN Connectors are 1x Male and 1x Female 9 pin Standard D Type Connectors with nuts.



Pin No	Pin Function
Pin 1	Digital Output 4 or +4.5V Instrumentation Supply Voltage, ensure that current draw is not more than 100mA
Pin 2	CAN Bus Low Signal
Pin 3	Ground
Pin 4	Digital Input or Output 1 - When used as an input do not apply voltages outside of the 0 to +12V range, when used as an Output ensure that current draw is not more than 100mA. More information on use of this pin can be found in Appendix 2 and 3
Pin 5	Power Ground
Pin 6	Digital Input or Output 3
Pin 7	CAN Bus High Signal
Pin 8	Digital Input or Output 2 - When used as an input do not apply voltages outside of the 0 to +12V range, when used as an Output ensure that current draw is not more than 100mA. More information on use of this pin can be found in Appendix 2 and 3
Pin 9	4.5-36V Supply Voltage

Warning

- Each End of the CAN bus must be terminated with a 120ohm resistor accros CAN H and CAN L.