

## Termination

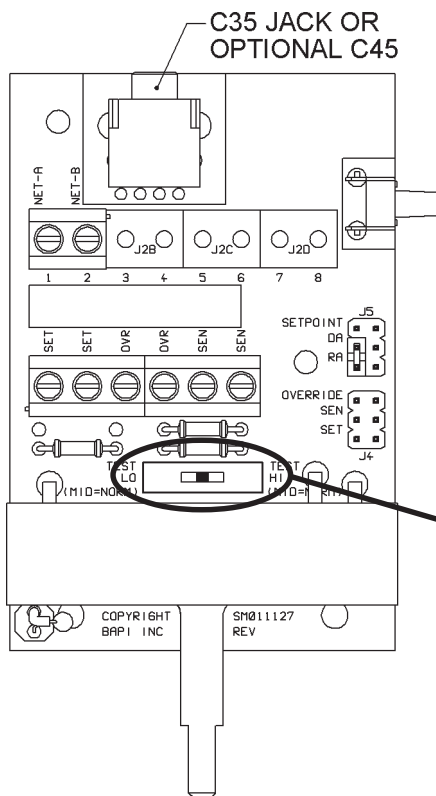
BAPI recommends using twisted pair of at least 22AWG and sealant filled connectors for all wire connections. Larger gauge wire may be required for long runs. All wiring must comply with the National Electric Code (NEC) and local codes.

Do NOT run this device's wiring in the same conduit as AC power wiring of NEC class 1, NEC class 2, NEC class 3 or with wiring used to supply highly inductive loads such as motors, contactors and relays. BAPI's tests show that fluctuating and inaccurate signal levels are possible when AC power wiring is present in the same conduit as the signal lines. If you are experiencing any of these difficulties, please contact your BAPI representative



BAPI does not recommend wiring the sensor with power applied as accidental arcing may damage the product and will void the warranty

Fig 1



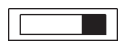
### Wire Connections:

Terminal Blocks 1-8 (See Comm Jack wiring below)

Setpoint	( <b>Resistive Output</b> ) [To Analog Input of Controller]
Setpoint	( <b>Resistive Output</b> ) [To Analog Input of Controller]
Override	( <b>Resistive Output</b> ) [To Analog Input of Controller]
Override	( <b>Resistive Output</b> ) [To Analog Input of Controller]
Sensor	( <b>Resistive Output</b> ) [To Analog Input of Controller]
Sensor	( <b>Resistive Output</b> ) [To Analog Input of Controller]

### OPTIONAL TEST & BALANCE SWITCH

Optional: Test and Balance Switch (S2)



High: Will set the sensor value to highest temperature



Norm: Thermistor/RTD will operate normally



Low: Will set the sensor value to lowest temperature

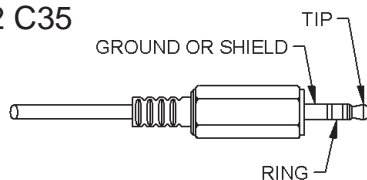
### Communications Jack: Standard: C35 3.5mm Optional: C45

### C35 Wiring

NET-A	1	[Internally connected to Comm Jack GROUND]
NET-B	2	[Internally connected to Comm Jack TIP]
	3	Not Connected
	4	Not Connected
	5	Not Connected
	6	Not Connected
	7	Not Connected
	8	Not Connected

Note: Ring is not connected

Fig. 2 C35

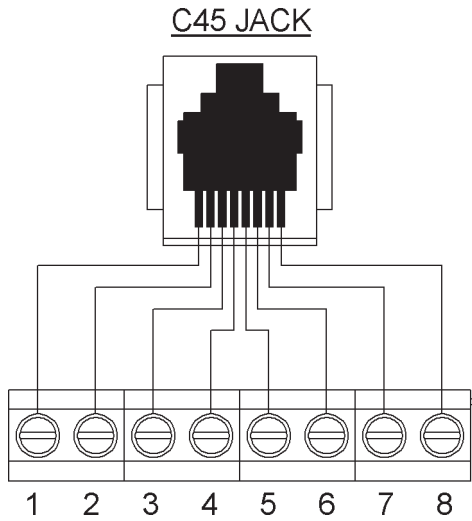


Male Jack shown for clarity

\*Some items may not be CE compliant, call BAPI for additional information.

Specifications subject to change without notice.

Fig. 3



**C45 Wiring**

- 1 [Internally connected to Comm Jack pin 1]
- 2 [Internally connected to Comm Jack pin 2]
- 3 [Internally connected to Comm Jack pin 3]
- 4 [Internally connected to Comm Jack pin 4]
- 5 [Internally connected to Comm Jack pin 5]
- 6 [Internally connected to Comm Jack pin 6]
- 7 [Internally connected to Comm Jack pin 7]
- 8 [Internally connected to Comm Jack pin 8]

Sensor Type	Low Temperature (40° F)	High Temperature (105° F)
	Resistance Value	Resistance Value
1000Ω RTD	1.02KΩ (41.2°F)	1.15KΩ (101.5°F)
3000Ω Thermistor	7.87KΩ (39.5°F)	1.5KΩ (106.8°F)
10K-2 Thermistor	30.1KΩ (39.2°F)	4.75KΩ (105.8°F)
10K-3 Thermistor	26.7KΩ (35.9°F)	5.11KΩ (108.4°F)
10K-3(11K) Thermistor	7.32KΩ (43.7°F)	3.65KΩ (105.2°F)

**Jumper Settings**

**'J5' Options**

- Setpoint Direct Acting (DA): J5=
- Setpoint Reverse Acting (RA): J5=

**'J4' Options**

- Override in parallel with setpoint: J4=
- Override in parallel with sensor: J4=
- Override as a separate input: J4=
- Common Ground **J2-Pins 2,4,6:** J4=

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