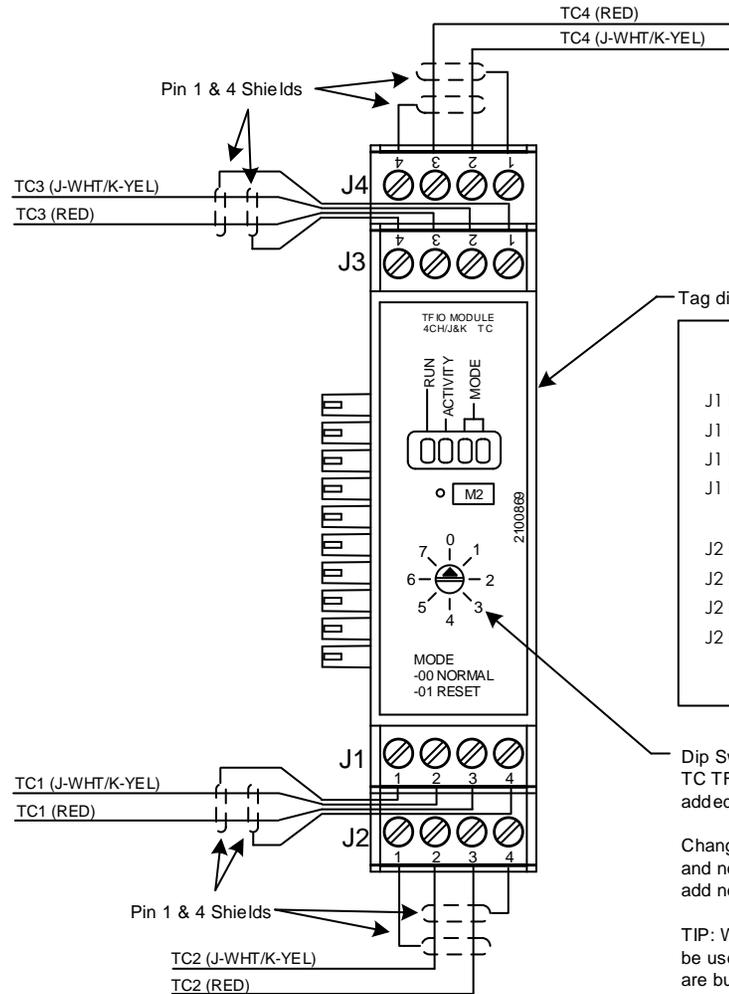NOTES:

1. WARNING: This drawing does not illustrate completely the installation methods required for hazardous locations. Prior to any installation in a Classified Hazardous Location, verify installation methods by the Control Drawing referenced on the product's name tag and national and local codes.

2. LED Indicators:

   Run LED – Blinking indicates on-board PIC running.
   Activity LED – Blinking indicates buss activity.
   Mode LED – 00 = Normal   01 = Reset

3. LED Operation:

   Register 0.7.7 = 0 – Power Save Mode (LEDs off when MMI disconnected)
   Register 0.7.7 = 1 – LEDs on all the time.

4. The thermocouple leads attached to this device must not contact any external voltage source. Damage to the device will result from connection between the thermocouple leads and the ignition system, or any AC or DC power source

   Do not run in the same conduit as ignition or other high-energy wires. Keep secondary wires to spark plugs and other high-voltage wiring at least 8 inches away from thermo-couple and extension wiring.

5. If it becomes necessary to check the thermocouple with an ohmmeter or some other type of checker, first unplug the thermocouple connector at the module. This will prevent possible damage to the Module's sensitive low-voltage detection circuitry.

6. TFIO modules with the M2 designation are designed to operate at 12 and 24 volts. All other functions of the module are the same.
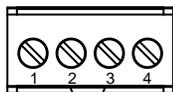
There are 4 configurable points available on the Thermocouple Module. Each point can be configured to be either a "J" or "K" type.

Jumper across the terminals of any unused thermocouple inputs.

TC4 (RED)
TC4 (J-WHT/K-YEL)

Pin 1 & 4 Shields

J4

TC3 (J-WHT/K-YEL)
TC3 (RED)

J3

TFIO MODULE
4CH/J&K TC

RUN
ACTIVITY
MODE

M2

2100869

0
7   1
6   2
5   3
4

MODE
-00 NORMAL
-01 RESET

Tag displayed on side of TFIO

TFIO MODULE
4CH/J&K TC

J1 Pin 1-Shield	J3 Pin 1-Shield
J1 Pin 2-TC1 (J-Wht/K-Yel)	J3 Pin 2-TC3 (J-Wht/K-Yel)
J1 Pin 3-TC1 Red(-)	J3 Pin 3-TC3-Red(-)
J1 Pin 4-Shield	J3 Pin 4-Shield
J2 Pin 1-Shield	J4 Pin 1-Shield
J2 Pin 2-TC2 (J-Wht/K-Yel)	J4 Pin 2-TC4 (J-Wht/K-Yel)
J2 Pin 3-TC2 Red(-)	J4 Pin 3-TC4 Red(-)
J2 Pin 4-Shield	J4 Pin 4-Shield

TAG NO. 2101767-001

J1

TC1 (J-WHT/K-YEL)
TC1 (RED)

J2

Pin 1 & 4 Shields

TC2 (J-WHT/K-YEL)
TC2 (RED)

Jumper

Dip Switch factory default address is set at 0. If another 4CH/J&K TC TFIO is added, move that Dip Switch setting to 1. If more are added, use the next address in line for each.

Changing the address applies only to TFIOs of their own type, and not TFIOs of another type; those would also start at 0 and add new address of their own.

TIP: While 0 is recommended for the first one, any address can be used (But keep in mind the original config files in our software are built with this address and factory tests will look for it).