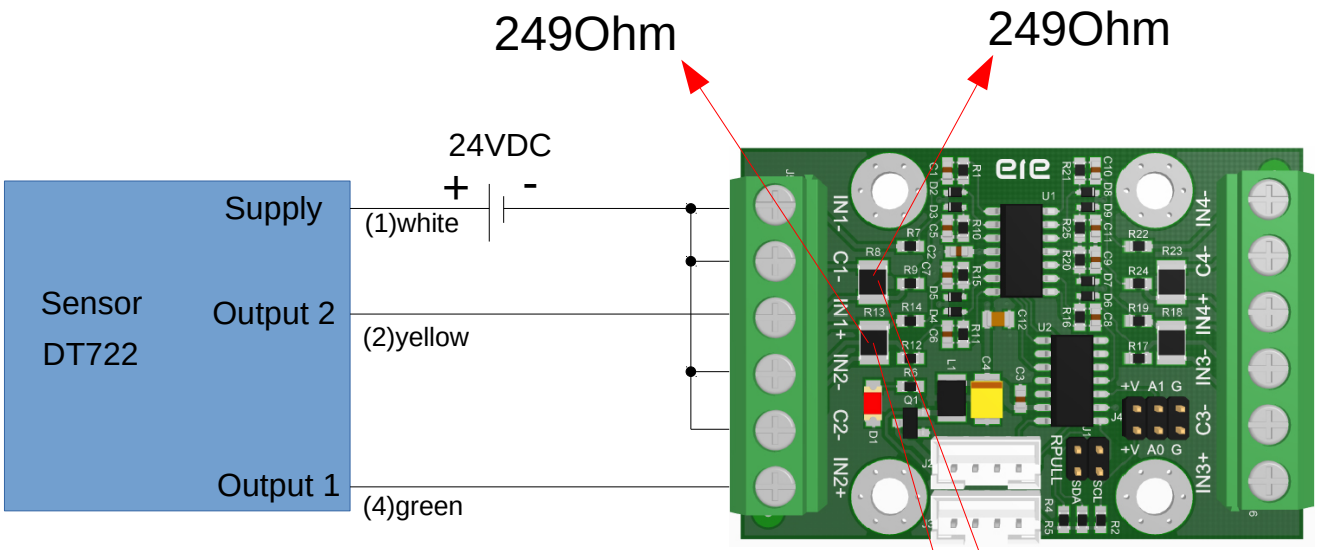
I2C-AI418S Application

Connection with 2-wire 4-20mA DT722

If power supply voltage less than 13VDC is not working. Maybe you have to increase the power supply voltage 13VDC to 35VDC. Because when current 20mA goes through the RL(249Ohm) it creates 5VDC drop over the RL. Then the voltage for the sensor is less than 8VDC.
However, If the sensors use only 3VDC for working. You can use voltage 8VDC for power supply. In the diagram is 24VDC. If you have lower voltage you can test it.



Connections		
Cable	**Pin**	
White	Pin 1	SUPPLY + 8 to 32 V DC
Yellow	Pin 2	Output 2 = Temp 4-20 mA (max 500 Ω)
Brown	Pin 3	Not connected (for calibration only)
Green	Pin 4	Output 1 = RH 4-20 mA (max 500 Ω)
	Pin 5	Not connected (for calibration only)

Note: Both RH and T need to be connected in order for the T output to work

The I2C-AI418S has already had RL in each input channel. So you don't need to have external RL. You can use the RL on the I2C-AI418S. The RL on the I2C-AI418S is 249 ohm which this value is less than the maximum load of the sensor, DT722.

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