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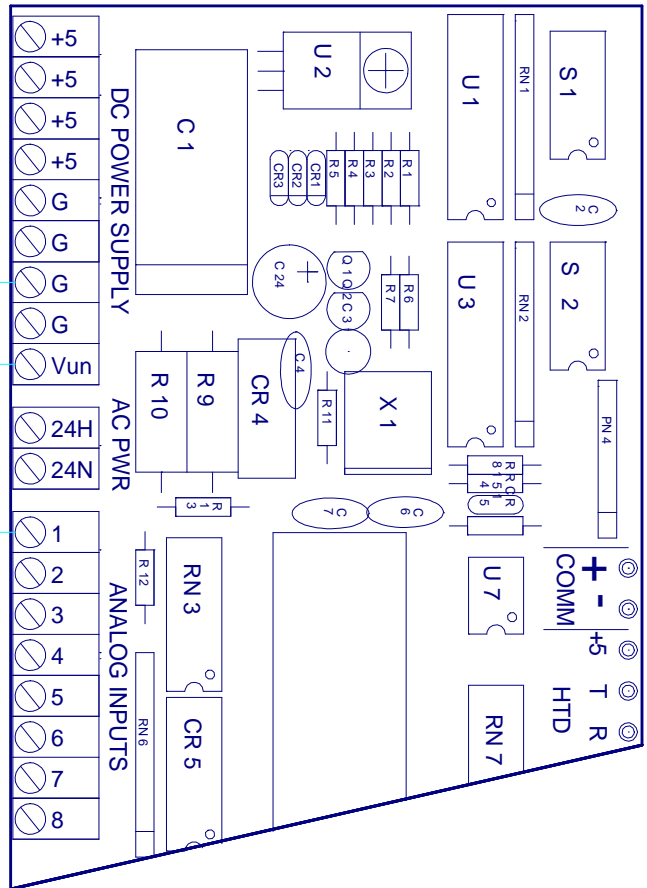
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Application Note 017 – Using a 4-20 mA Input Device With a Type 1 or 2 RSC

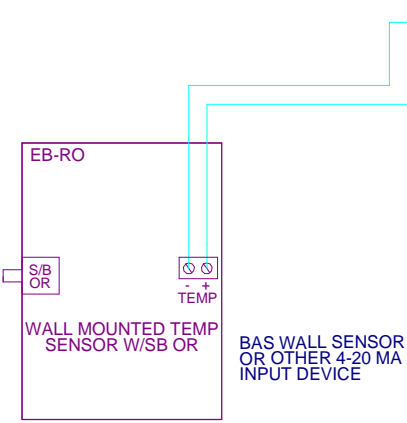
A BAS Type 4 temperature sensor or other device with a 4-20 mA analog signal can be used with a Type 1 or 2 RSC with the addition of a field installed resistor. To use a 4-20 mA device:

1. Connect as shown on next page for either a Type 1 (0 to 3.8 VDC input) or Type 2 (0 to 5 VDC input) RSC.
2. Configure the sensor type and scale using Zone/Configure/Sensors in the BAS software. Select the actual sensor type ie if using a Type 4 wall sensor, select 'T4 Room Temp' as the sensor type.
3. Always select '1-5 V' as the signal type when connection a 4-20 mA device to either a Type 1 or Type 2 RSC.

Type 1 RSC

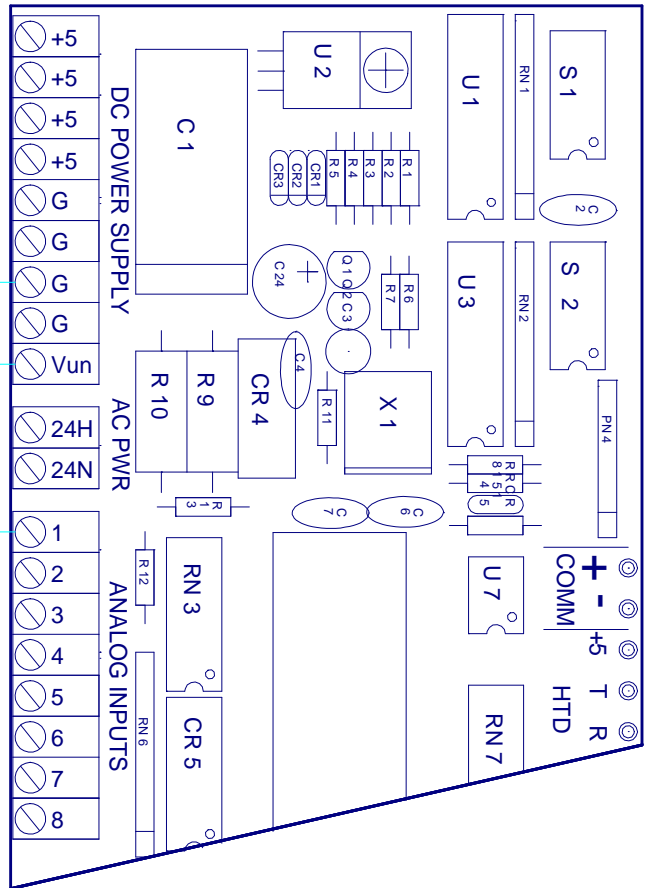


FIELD INSTALLED 190 OHM RESISTOR TO CONVERT 4-20 mA OUTPUT TO 0.76-3.80 VDC SIGNAL (DIGIKEY PART #191XBK-ND)

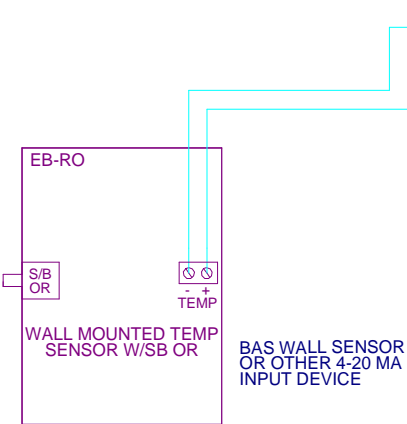


BAS WALL SENSOR OR OTHER 4-20 MA INPUT DEVICE

Type 2 RSC



FIELD INSTALLED 250 OHM RESISTOR TO CONVERT 4-20 mA OUTPUT TO 1.0-5.0 VDC SIGNAL (DIGIKEY PART #249XBK-ND)



BAS WALL SENSOR OR OTHER 4-20 MA INPUT DEVICE