I2C-AI418S Application

Connection with 2-wire 4-20mA SPT25-20

Red —— V+

R_L = 249 Ohm

Black —— Com

With Integral Cable

24VDC

Sensor
SPT25-20

+ red

COM black

Maximum Load

Determine Maximum Loop Resistances

$$\frac{V_L - 9\ VDC}{0.022\ amps} = R_L$$

For example
[(24 VDC − 9 VDC) / 0.022 amps] = 681Ω

249 < 681
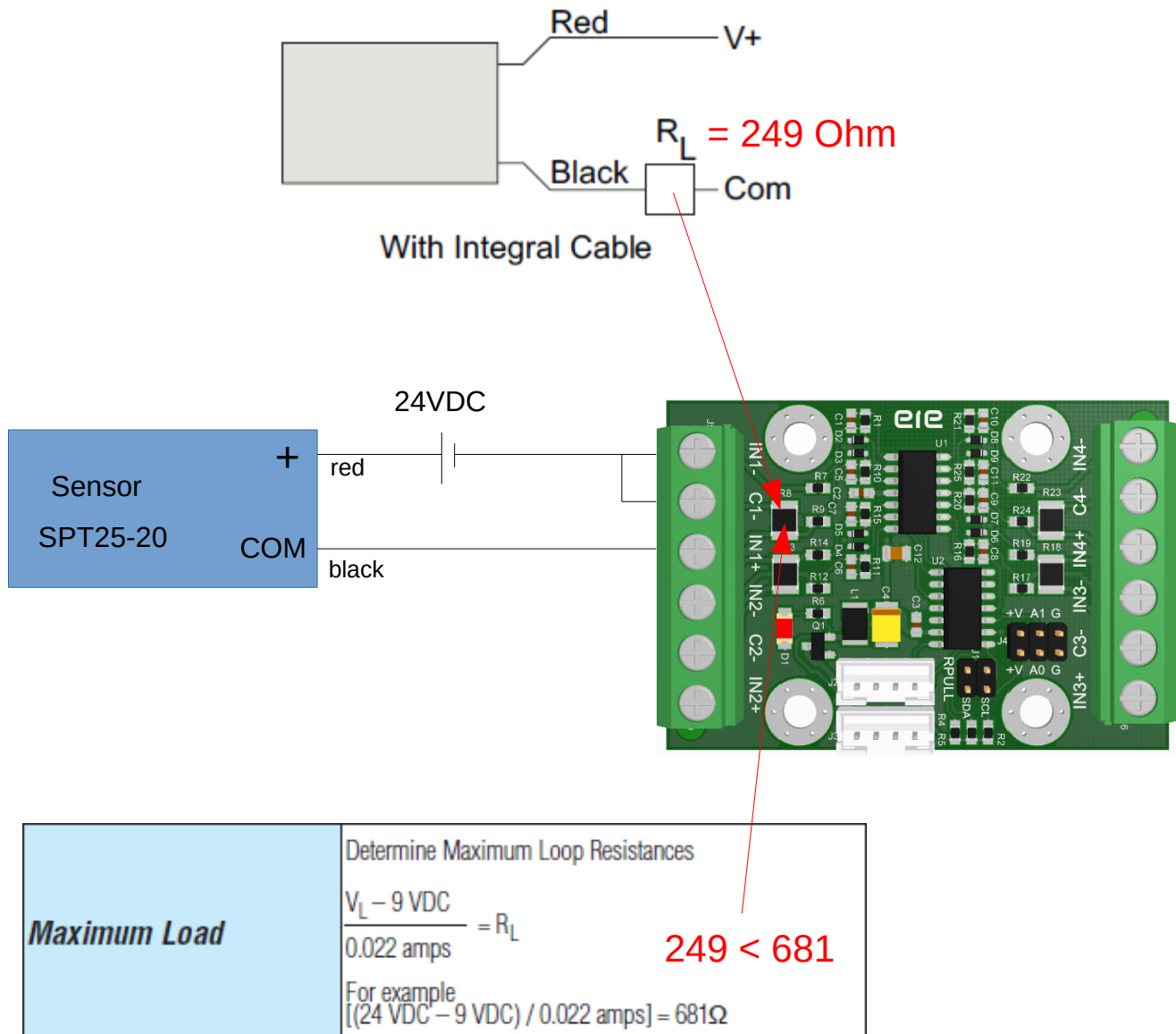
The I2C-AI418S has already had RL in each input channel. So you don't need to have external RL. You can use the RL on the I2C-AI418S. The RL on the I2C-AI418S is 249 ohm which this value is less than the maximum load of the sensor, SPT25-20 when you use 24VDC power supply.

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www.ereshop.com