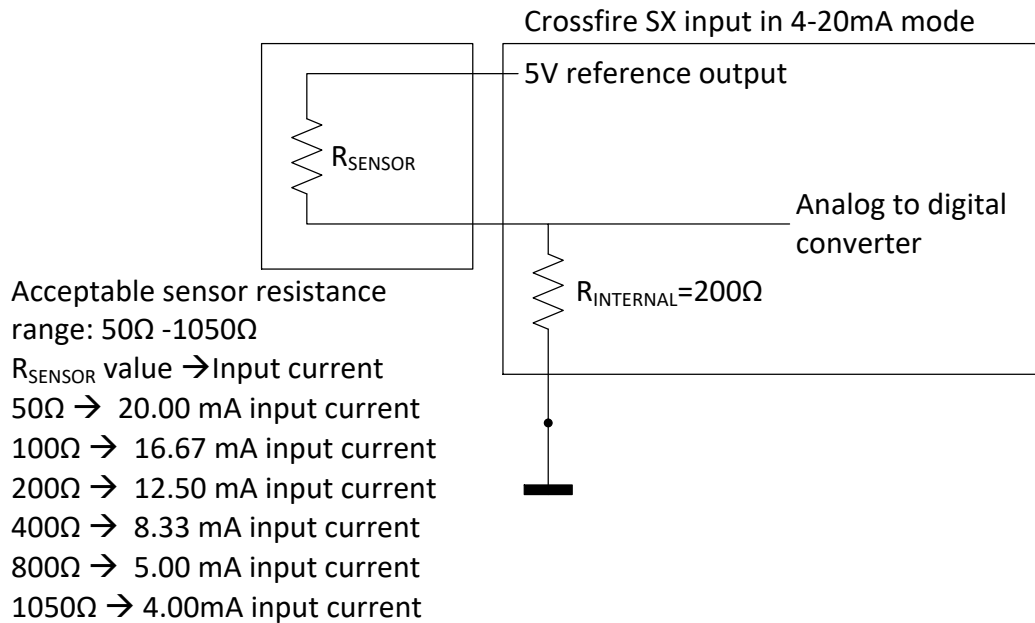


Crossfire SX with resistive sensors

Crossfire SX does not have a native resistive input, but resistive sensors can be supported by using the 5.00V sensor reference supply on Crossfire SX together with the configurable inputs in the 4-20 mA range. With this setup it is possible to cover resistive sensors within the range 50Ω to 1050Ω.



As shown in the figure there is an internal 200 resistor connected to ground in Crossfire SX when the input is configured for 4-20mA current input. The sensor resistance can be calculated from the current reading according to:

$$R_{SENSOR} = \frac{5V}{Current\ reading} - R_{INTERNAL}$$