

5.1. Application Circuits

For applications with disturbances on the supply line or radiated disturbances, a series resistor R_V and two capacitors C_P and C_L all placed close to the sensor are recommended (see Fig. 5–1).

For example: $R_V = 100\ \Omega$, $C_P = 10\ \text{nF}$, and $C_L = 4.7\ \text{nF}$.

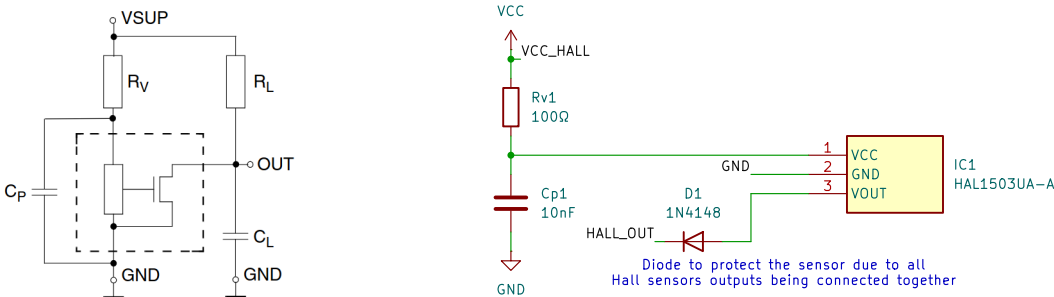


Fig. 5–1: Example for a recommended application circuit

R_L is the open-drain pull-up resistor and has to be placed close to the input of the host controller to enable wire-break detection.