

Figure 1: Schematic of BSPD

The BSPD PCB is located in the front "Sensor-Node" (mainly there to transfer the analog data to CAN), in which a separate compartment is created to ensure the BSPD can be separated sealed without affecting other parts in the same housing.

### Test Procedure

1. apply external test current to the simulation coil
2. brake hard (with brake pressure  $\geq 30\text{bar}$ )

### Test Current Calculation

$$I_{test} = 5\text{kW}/V_{max} = 5\text{kW}/403.2\text{V} = 12.401\text{A}$$

12 windings  $\rightarrow$  test current  $\approx 1.034\text{A}$

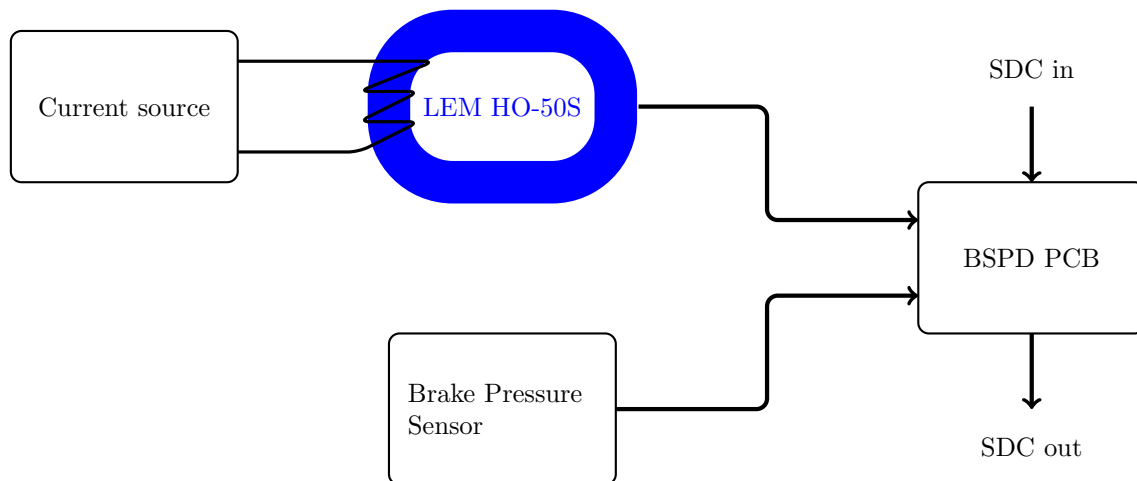


Figure 2: current simulation schematic