

Power Limit = 5kW
 TS Maximum Voltage = 403V
 $5kW / 403.2V = 12.401A$

Current Sensor Comparator Voltage (LEM HO 50-S):
 Sensor Offset: 2.5V
 Sensitivity = 0.016V/A (range: -125A-125A, output: 0.5V-4.5V)
 $\Rightarrow 2.5V + 0.016V/A * 12.401A = 2.698V$

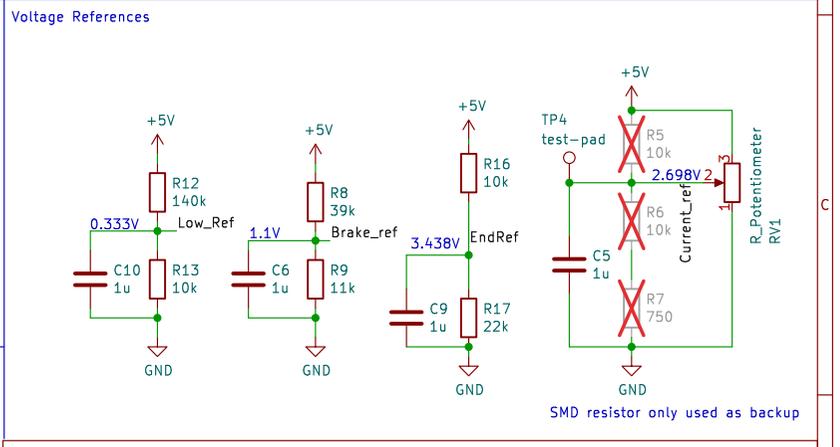
ADZ SME 200bar pressure sensor
 Ratiometric output from 0.5V-4.5V \Leftrightarrow 0..200bar
 $\Rightarrow 0.020 V/bar$

Break Pressure Sensor Voltage:
 $0.5V + 30bar * 0.020V/bar = 1.1V$

Error Latching: is realized with the RC Combination R21 and C13. In case of an Error the open collector output of U1A is discharging C13 via a small resistor R21, causing U1B to open the Shutdown Circuit. If the Error is removed, C13 is charged via R20 in series with R21, resulting in a time delay of ~11.65s

FTLogo_small
 Logo

MountingHole H1, H2, H3, H4



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