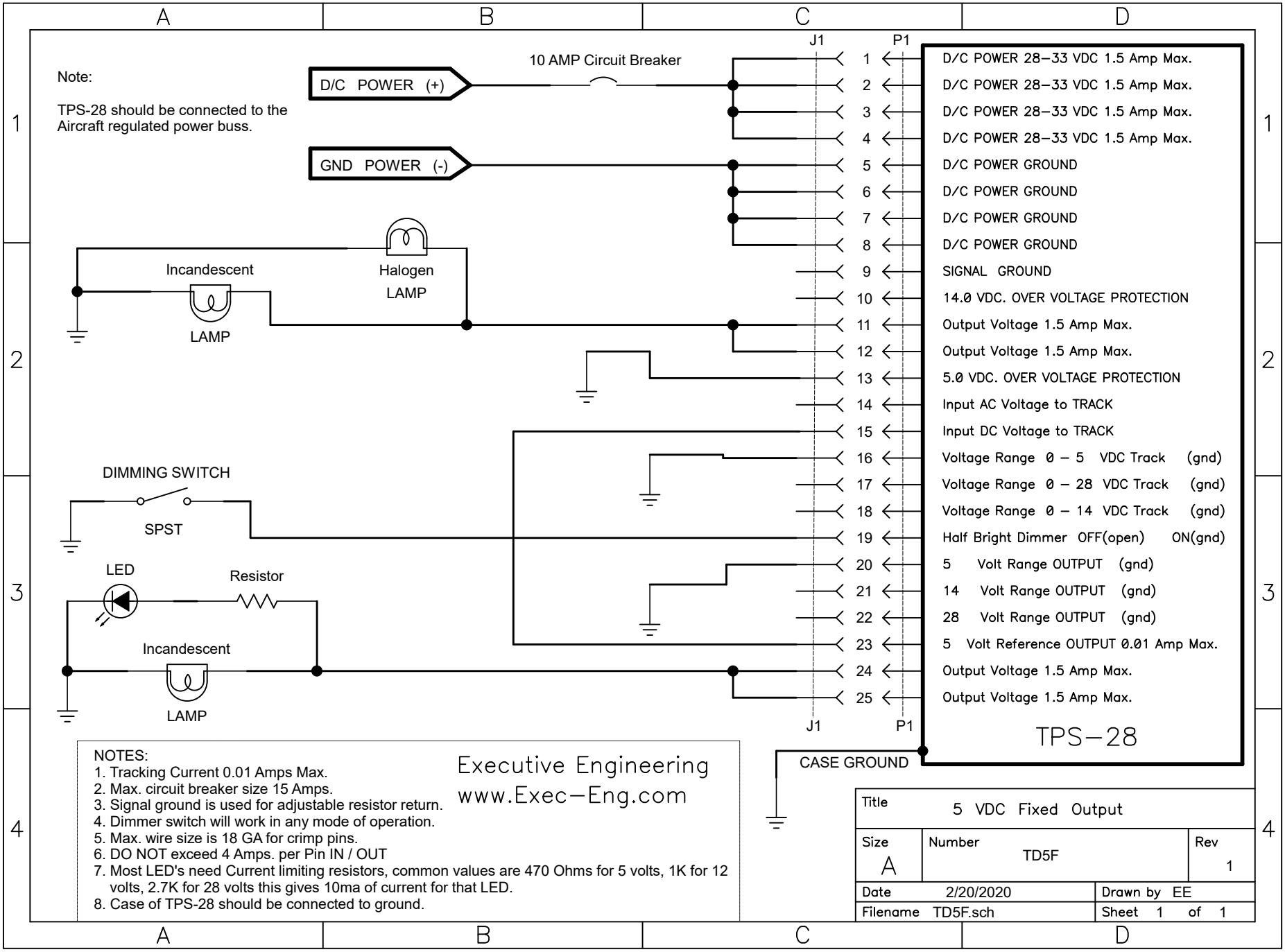
Note:
TPS-28 should be connected to the Aircraft regulated power buss.
D/C POWER (+)
GND POWER (-)
10 AMP Circuit Breaker
Incandescent
LAMP
Halogen
LAMP
DIMMING SWITCH
SPST
LED
Resistor
Incandescent
LAMP
J1
P1
1 D/C POWER 28–33 VDC 1.5 Amp Max.
2 D/C POWER 28–33 VDC 1.5 Amp Max.
3 D/C POWER 28–33 VDC 1.5 Amp Max.
4 D/C POWER 28–33 VDC 1.5 Amp Max.
5 D/C POWER GROUND
6 D/C POWER GROUND
7 D/C POWER GROUND
8 D/C POWER GROUND
9 SIGNAL GROUND
10 14.0 VDC. OVER VOLTAGE PROTECTION
11 Output Voltage 1.5 Amp Max.
12 Output Voltage 1.5 Amp Max.
13 5.0 VDC. OVER VOLTAGE PROTECTION
14 Input AC Voltage to TRACK
15 Input DC Voltage to TRACK
16 Voltage Range 0 – 5 VDC Track (gnd)
17 Voltage Range 0 – 28 VDC Track (gnd)
18 Voltage Range 0 – 14 VDC Track (gnd)
19 Half Bright Dimmer OFF(open) ON(gnd)
20 5 Volt Range OUTPUT (gnd)
21 14 Volt Range OUTPUT (gnd)
22 28 Volt Range OUTPUT (gnd)
23 5 Volt Reference OUTPUT 0.01 Amp Max.
24 Output Voltage 1.5 Amp Max.
25 Output Voltage 1.5 Amp Max.
TPS–28
CASE GROUND
NOTES:
1. Tracking Current 0.01 Amps Max.
2. Max. circuit breaker size 15 Amps.
3. Signal ground is used for adjustable resistor return.
4. Dimmer switch will work in any mode of operation.
5. Max. wire size is 18 GA for crimp pins.
6. DO NOT exceed 4 Amps. per Pin IN / OUT
7. Most LED's need Current limiting resistors, common values are 470 Ohms for 5 volts, 1K for 12 volts, 2.7K for 28 volts this gives 10ma of current for that LED.
8. Case of TPS-28 should be connected to ground.
Executive Engineering
www.Exec–Eng.com
Title 5 VDC Fixed Output
Size A
Number TD5F
Rev 1
Date 2/20/2020
Drawn by EE
Filename TD5F.sch
Sheet 1 of 1