

Connector on laser cutter power supply

## FULL SPECTRUM LASER - RATT INTEGRATION 2018-DEC-02

**GND (NO CONNECT)** - Ground

**P (PURPLE)** - Protection Input to PSU (laser will fire when low, firing prevented when high) - has internal pullup to 5V. Originally one pin of door safety switch was wired to this pin, and other pin of door switch is grounded.

**L (GREEN)** - Enable laser firing (active low - this signal will pulse on and off with the laser tube)

**GND (BLACK)** - Ground

**IN (ORANGE)** - Laser power level input to PSU (40kHz PWM) (Full Spectrum constantly outputs PWM on this pin, whether idle or cutting). We do not currently use this pin for anything - maybe consider removing from harness to reduce noise.

**+5V (RED)** - +5V supply, 50mA maximum

*The color coded wire harness shown to the left have been added by Makelt Labs (Foss & Richardson). The colors mostly match what was used internally by the Full Spectrum machine. Note that on the power supply connector, internal wires are also present on most of these pins.*

RFID ALL THE THINGS  
**RATT**

