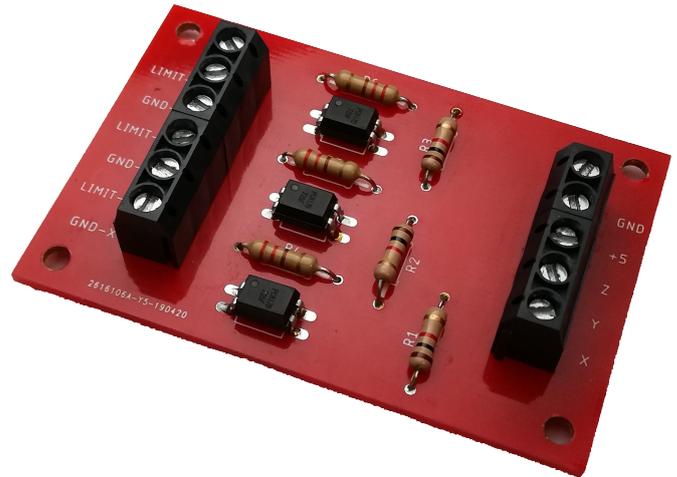


1 Overview

- 3 separated channels
- Treshold on input for better filtered output
- Headers with screws
- Compact design
- Built-in optoisolation



2 Description

- The limit switches filter has the role of removing noise that come from switches (as they are magnetic, IR, mechanical and so on).
- Built-in optocouplers will remove noise because of the minimum voltage needed to operate (about 1.4V) so they will not be triggered with noise. At the same time they provide fisical isolation bewteen your control board and switches.
- Three separated channel, one for each axis will improve the stability of the system.
- The board will provide as output, a logic LOW (GND) when the input terminal of the same channel are connected together (closed circuit). Otherwise the output will be HIGH (a stable +5 because of pull-up resistor) when inputs of the same channel are not connected together (open circuit).
In this way, this board can be use both with normally-open and normally-closed switches.

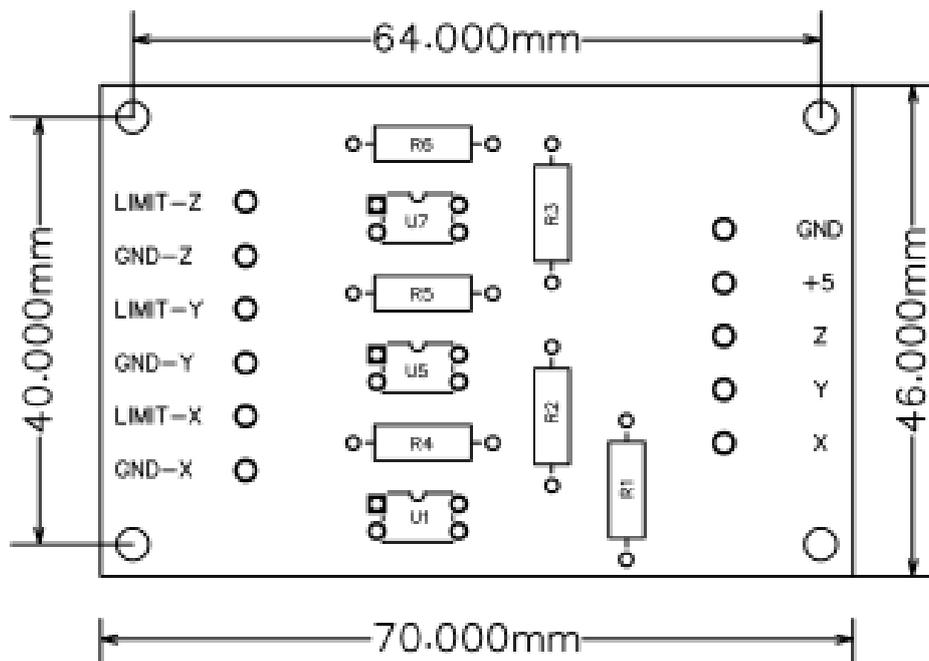
3 Technical specification

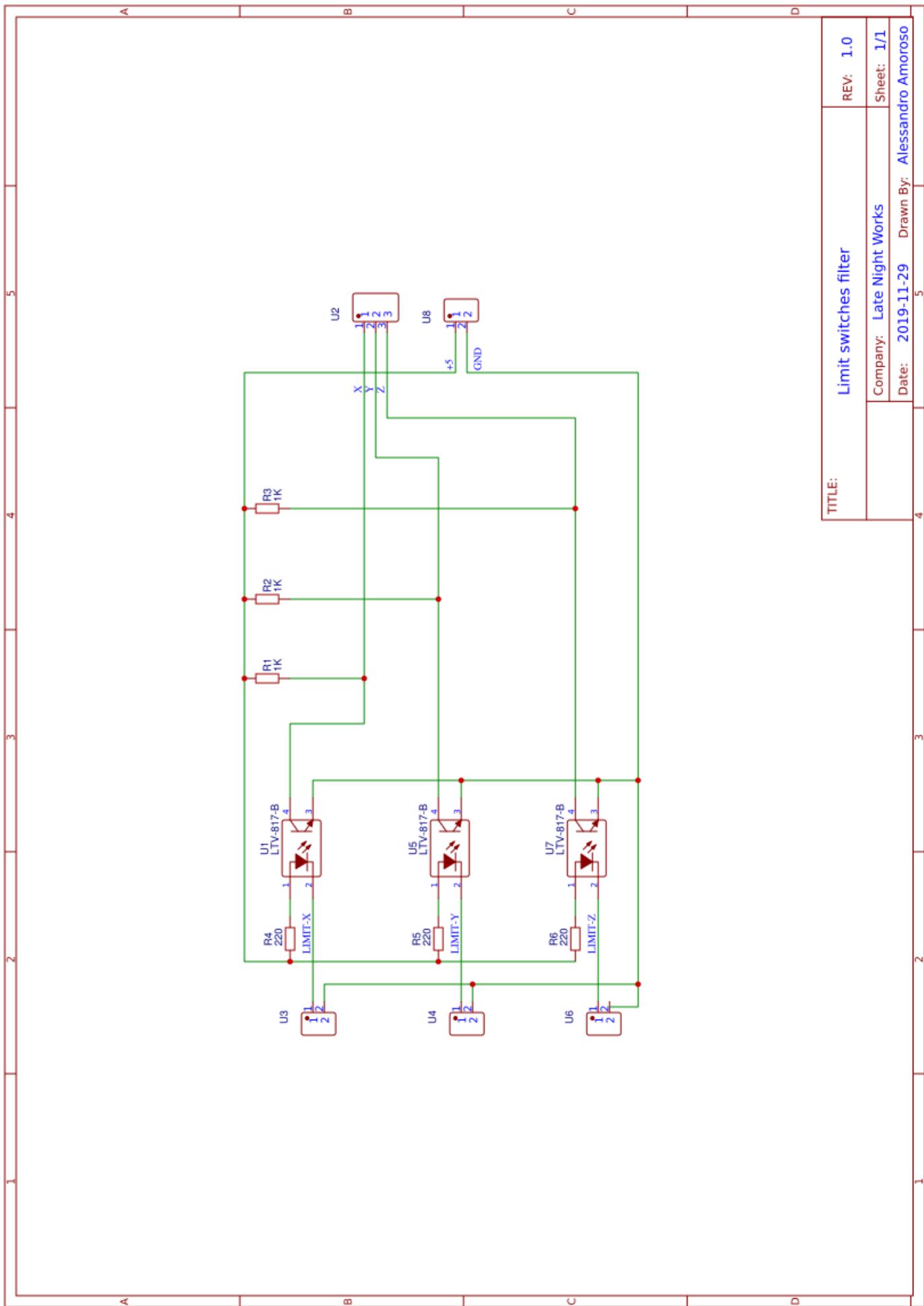
	Unit	Value
Power voltage	V	5.0
Maximum current through the board	A	0.07
Voltage range signal input	V	1.4 ÷ 5
Dimensions	mm * mm * mm	70*46*14.5
Weight	g	22
Temperature range	°C	-55 ÷ 110
n° of inputs	--	3

4 Pinout

Pin	Signal
GND	GND
+5	+5V Input (from power supply)
Z	Output signal for Z axis
Y	Output signal for Y axis
X	Output signal for X axis
LIMIT-Z	Z axis limit switch terminal 1
GND-Z	Z axis limit switch terminal 2
LIMIT-Y	Y axis limit switch terminal 1
GND-Y	Y axis limit switch terminal 2
LIMIT-X	X axis limit switch terminal 1
GND-X	X axis limit switch terminal 2

5 Measures





TITLE: Limit switches filter		REV: 1.0
Company: Late Night Works		Sheet: 1/1
Date: 2019-11-29	Drawn By: Alessandro Amoroso	