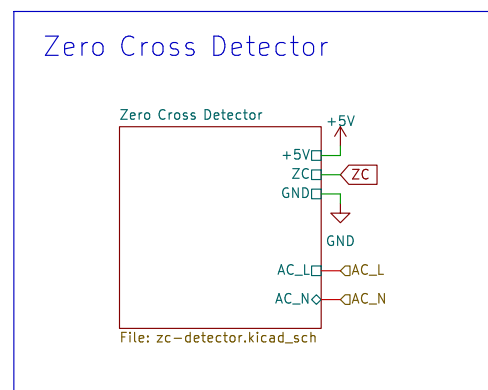
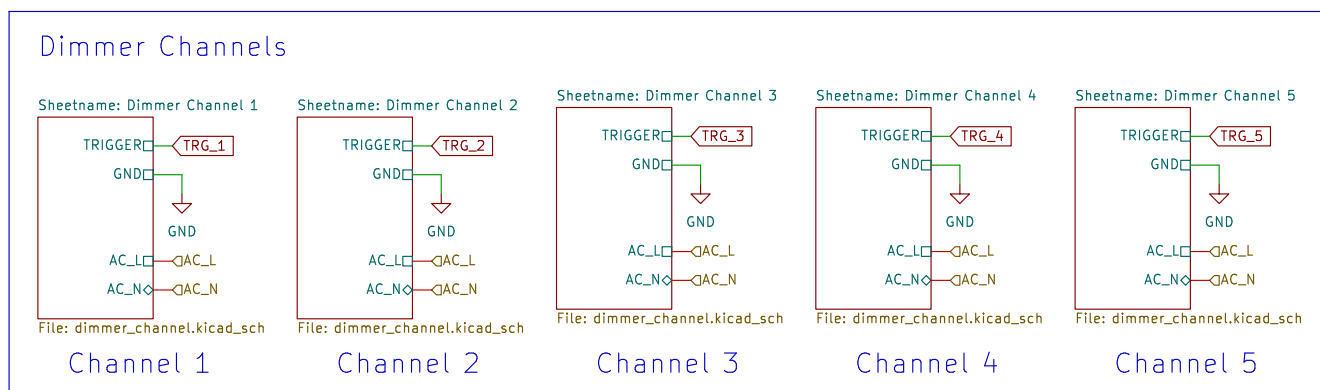
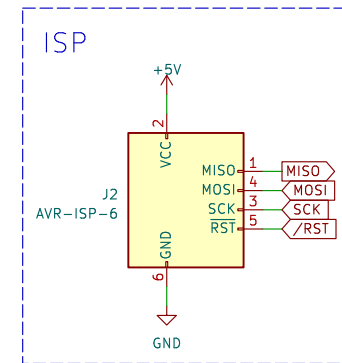
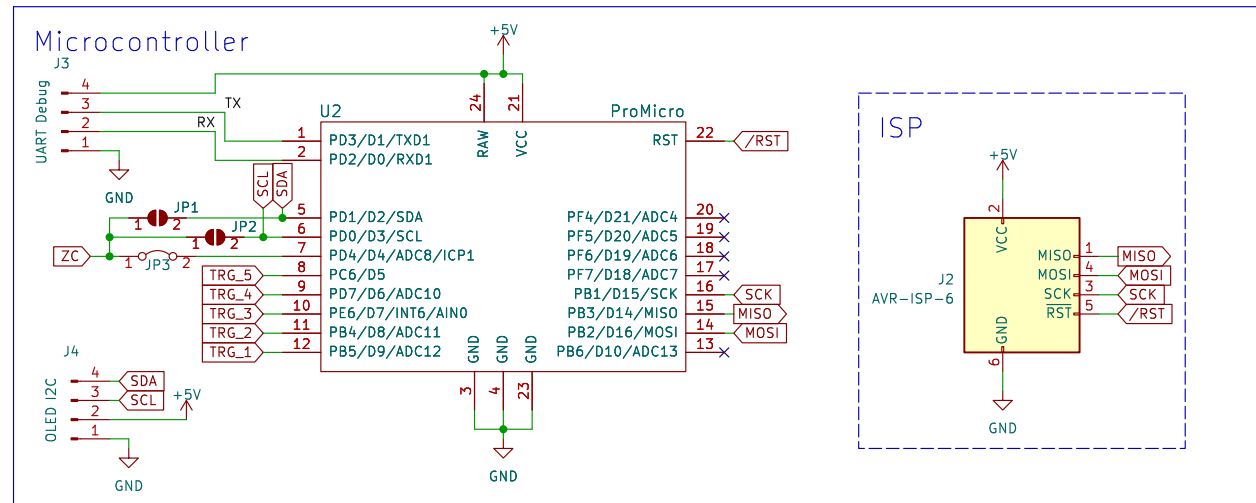
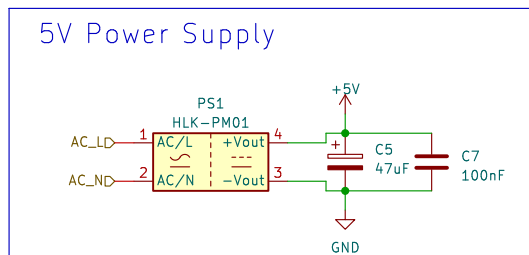
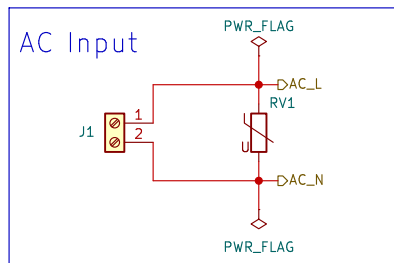


Trailing Edge Dimmer 5 Channels



Tercio Gaudencio Filho

Sheet: /
File: Rev1.kicad_sch

Title: Trailing Edge Dimmer

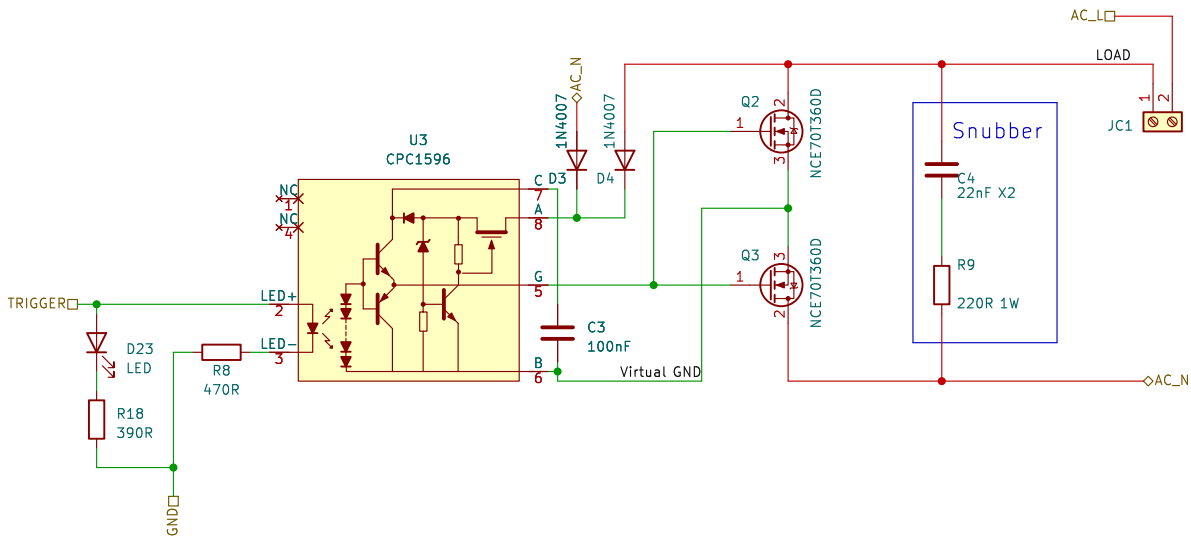
Size: A4 Date: 2023-03-16

KiCad E.D.A. kicad (7.0.0-0)

Rev: 1

Id: 1/7

Dimmer Channel



Sheet: /Sheetname: Dimmer Channel 1/
File: dimmer_channel.kicad_sch

Title:

Size: A4
KiCad E.D.A. kicad (7.0.0-0)

Date:

Rev:
Id: 2/7

Dimmer Channel

TRIGGER

D7 LED

R10 390R

GND

R11 470R

LED+

LED-

U4 CPC1596

C14 100nF

D8 1N4007

D9 1N4007

Q4 NCE70T360D

Q5 NCE70T360D

Snubber

C6 22nF X2

R12 220R 1W

LOAD

AC_L

AC_N

Virtual GND

Sheet: /Sheetname: Dimmer Channel 2/
File: dimmer_channel.kicad_sch

Title:

Size: A4 Date: Rev:

KiCad E.D.A. kicad (7.0.0-0) Id: 3/7

Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (7.0.0-0)		Id: 3/7

Dimmer Channel

TRIGGER

D12 LED

R13 390R

GND

R14 470R

LED+

LED-

U5 CPC1596

Φ13

A 8

G 5

B 6

C15 100nF

D14 1N4007

AC_N

Q6 NCE70T360D

Q7 NCE70T360D

Snubber

C8 22nF X2

R15 220R 1W

LOAD

AC_L

JC3

AC_N

Sheet: /Sheetname: Dimmer Channel 3/
File: dimmer_channel.kicad_sch

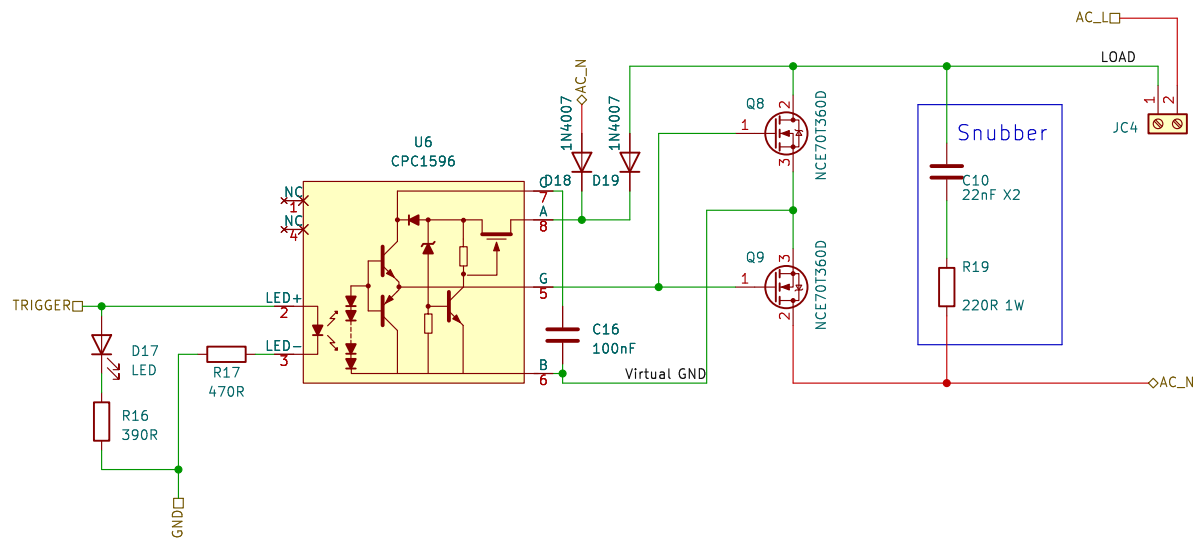
Title:

Size: A4 Date: Rev:

KiCad E.D.A. kicad (7.0.0-0) Id: 4/7

Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (7.0.0-0)		Id: 4/7

Dimmer Channel



Sheet: /Sheetname: Dimmer Channel 4/
File: dimmer_channel.kicad_sch

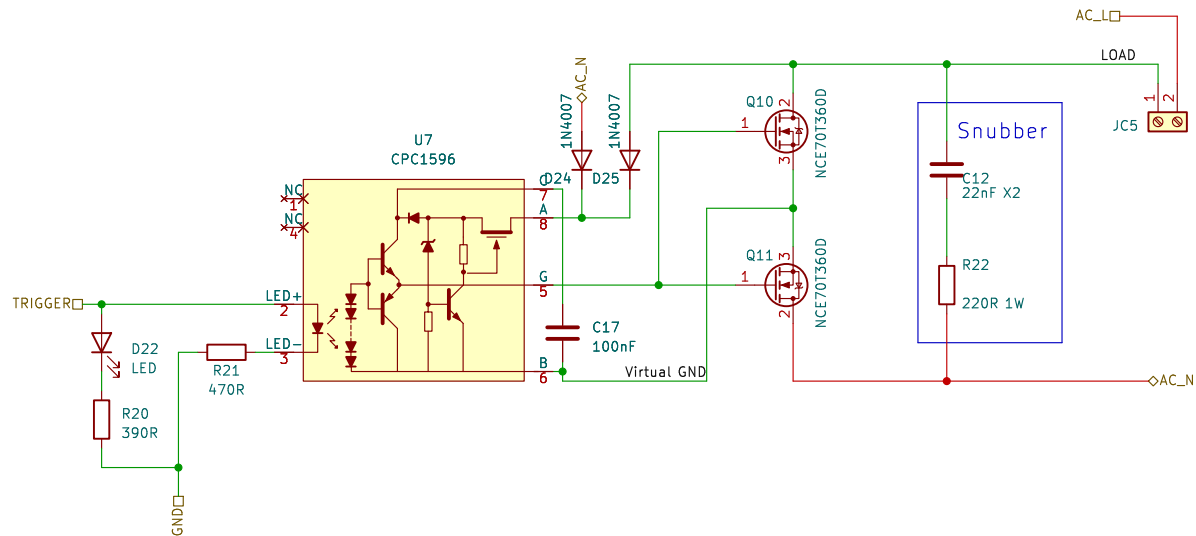
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Size: A4	Date:
KiCad E.D.A. kicad (7.0.0-0)	

Date:

Rev:
Id: 5/7

Dimmer Channel



Sheet: /Sheetname: Dimmer Channel 5/
File: dimmer_channel.kicad_sch

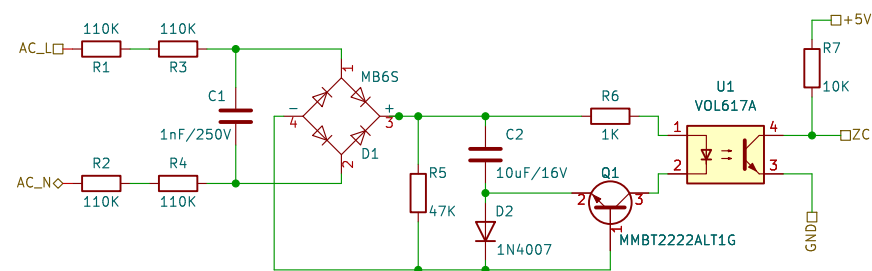
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Size: A4
KiCad E.D.A. kicad (7.0.0-0)

Date:

Rev:
Id: 6/7

Zero Cross Detector



* Provided component values for 127V rms AC

Sheet: /Zero Cross Detector/
File: zc-detector.kicad_sch

Title:

Size: A4
KiCad E.D.A. kicad (7.0.0-0)

Date:

Rev:
Id: 7/7