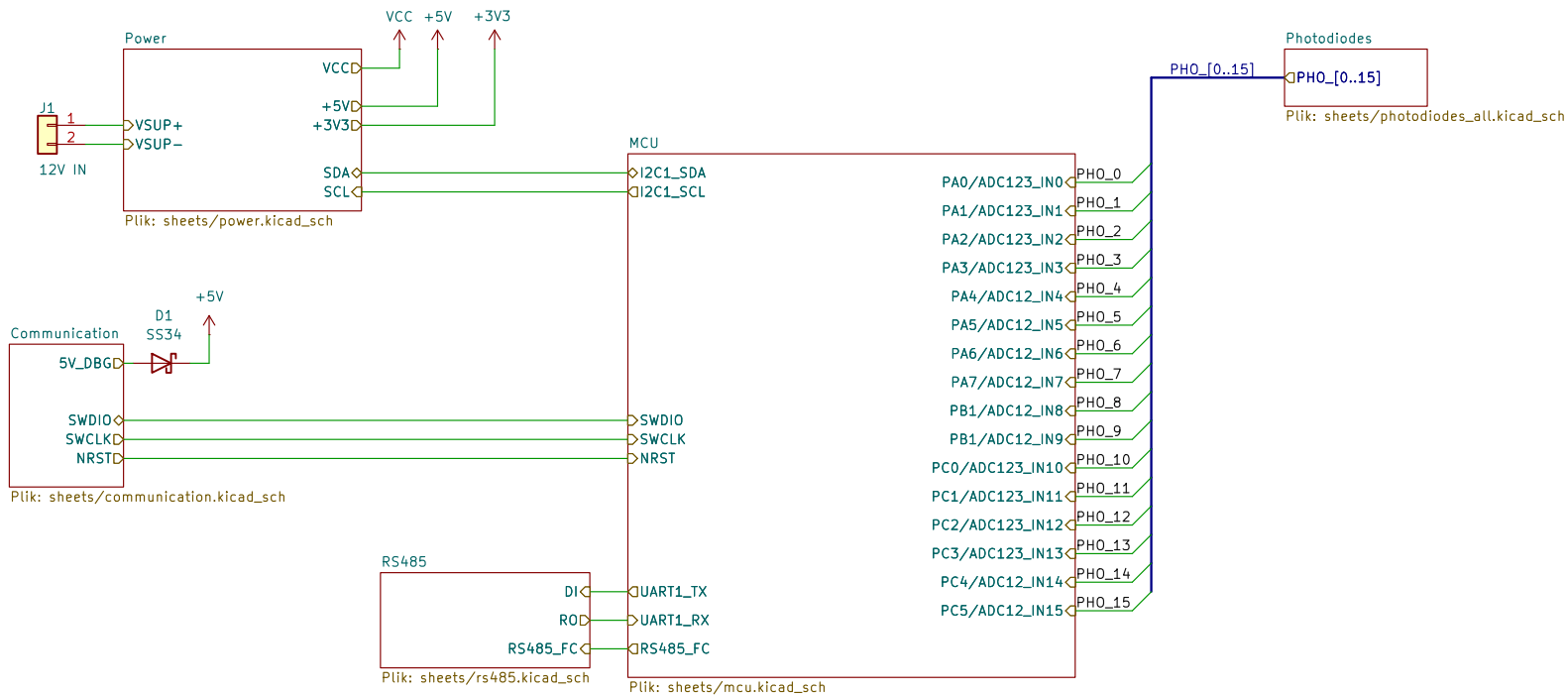


Dodać sekcję komunikacji z czujnikami IMU, MEMS, odległości
(wybrać jakie)
Można dodać UART do komunikacji USB (mniej ruski debug)
Przypisać fooprnty i zrobić płytkę



Sheet: /
File: uMule_board.kicad_sch

Title:

Size: A4

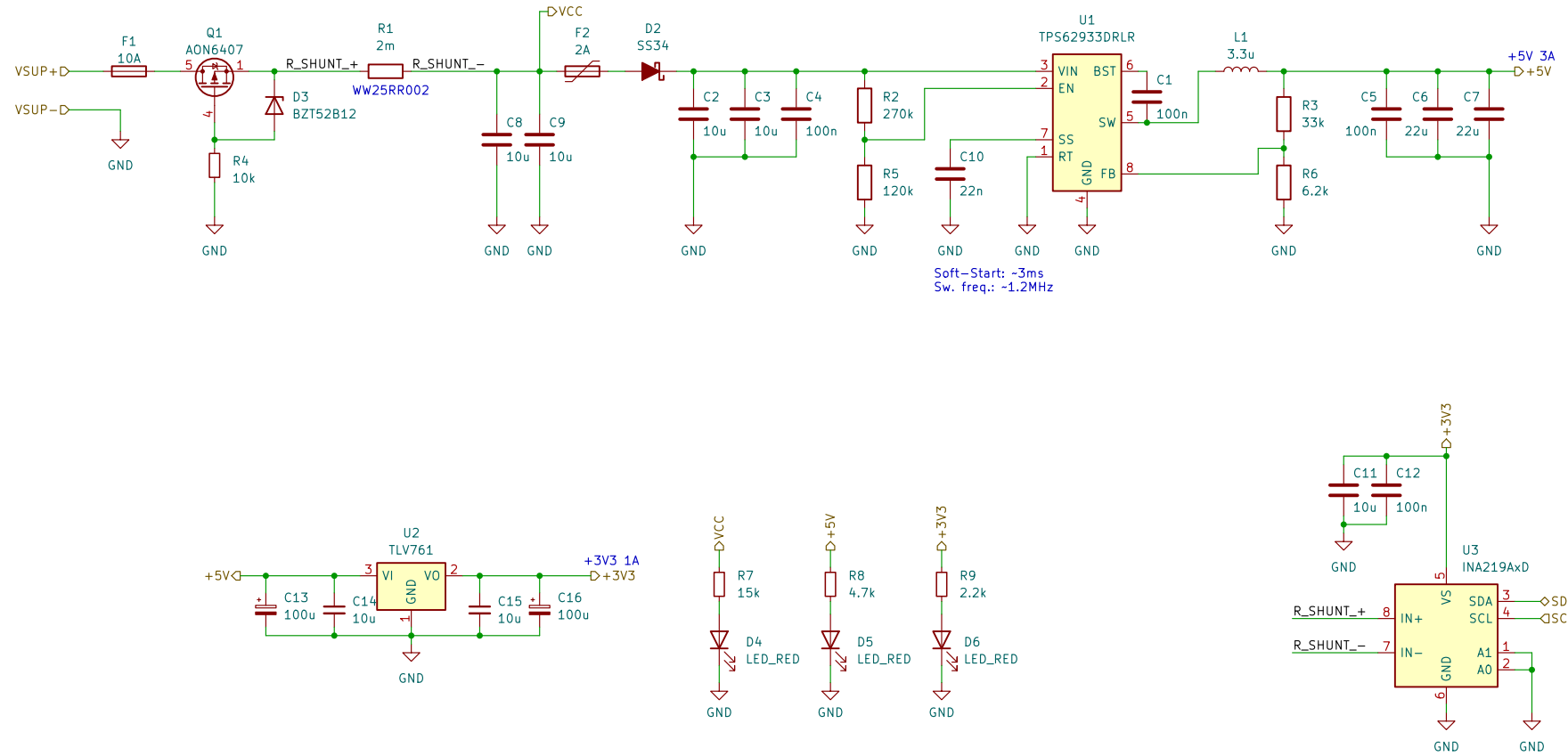
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Chyba gotowe, dodać opisy schematu



Sheet: /Power/
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Title:

Size: A4 Date:

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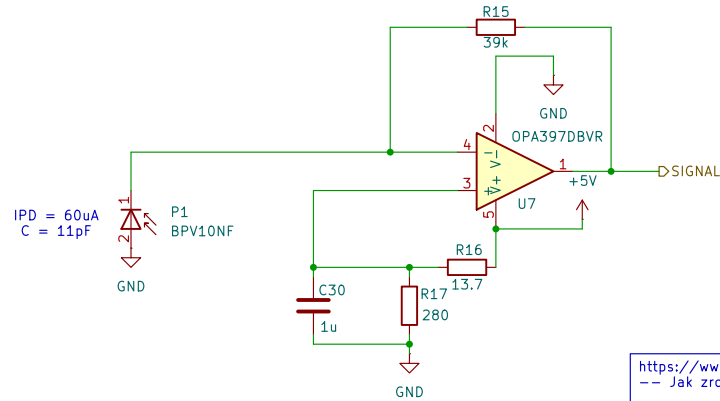


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6

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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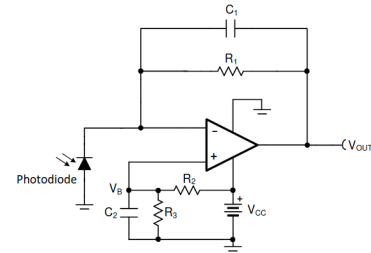


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC}\frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

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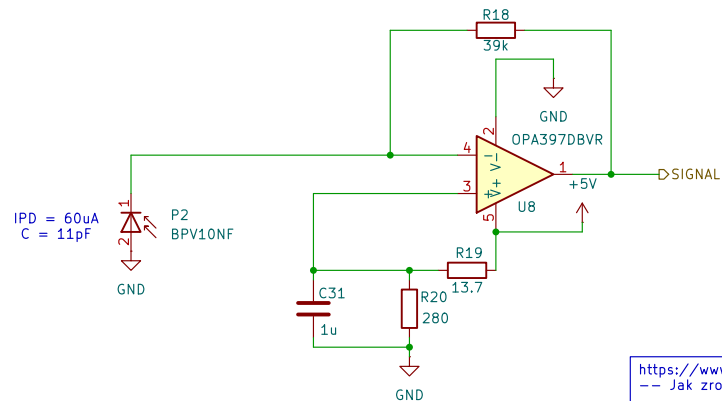
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Id: 4/22

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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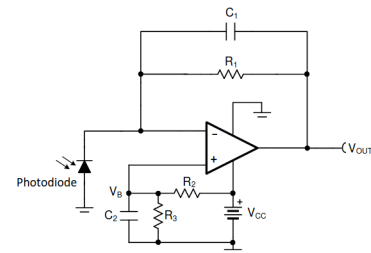


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC}\frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

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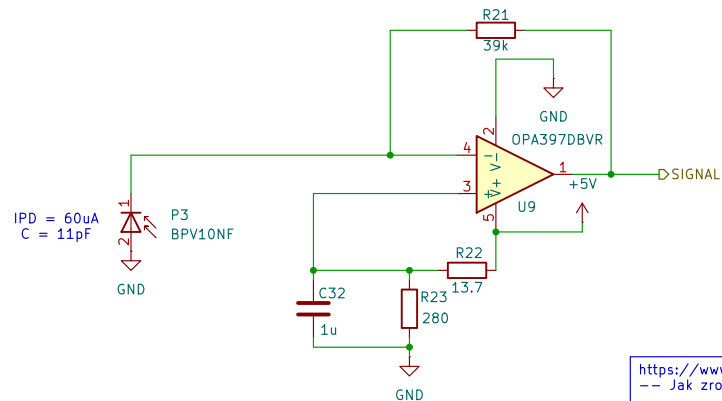
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Id: 5/22

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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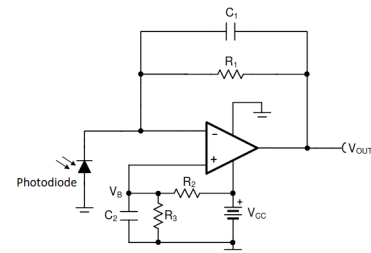


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC}\frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

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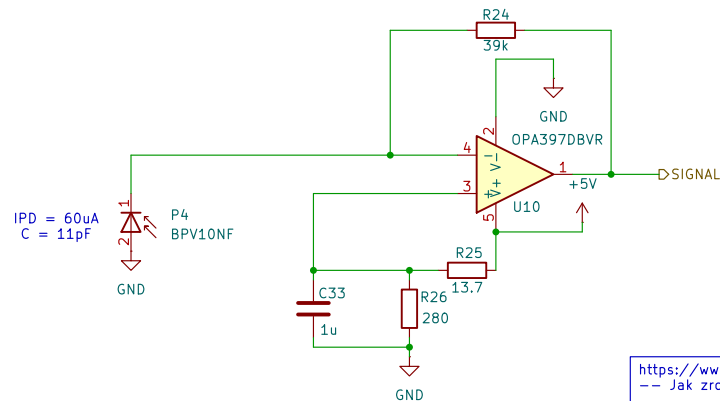
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Rev:

Id: 6/22

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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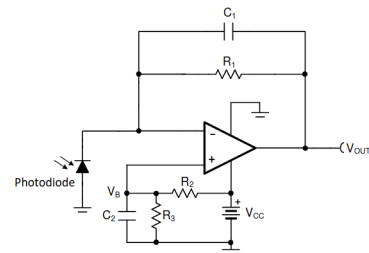


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC}\frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

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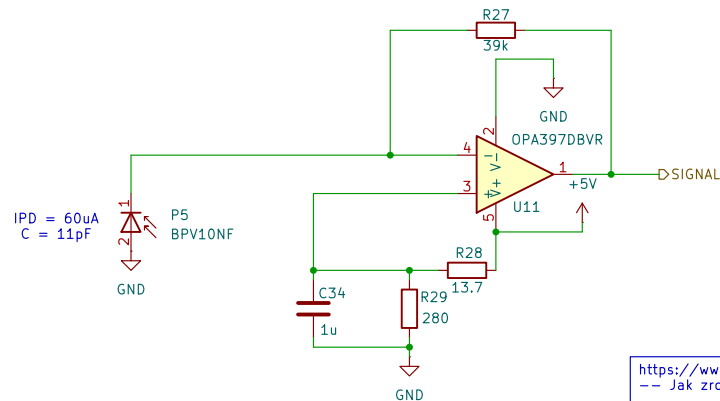
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Rev:

Id: 7/22

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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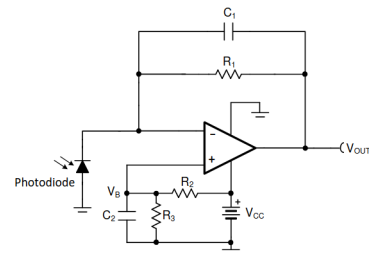


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC}\frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

Sheet: /Photodiodes/Photodiode4/
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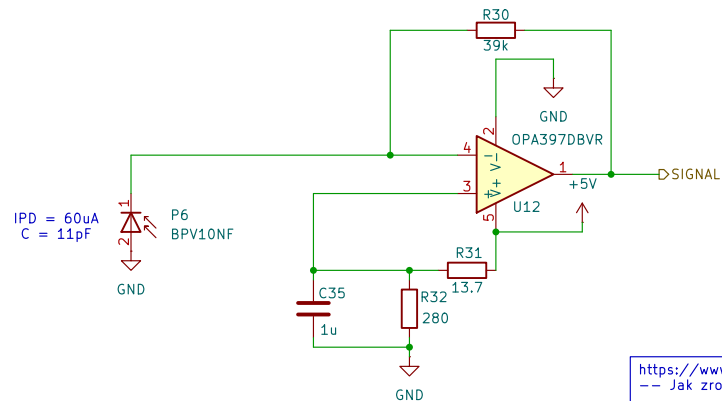
KiCad E.D.A. 9.0.6

Rev:

Id: 8/22

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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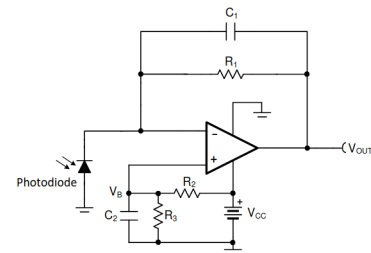


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC}\frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

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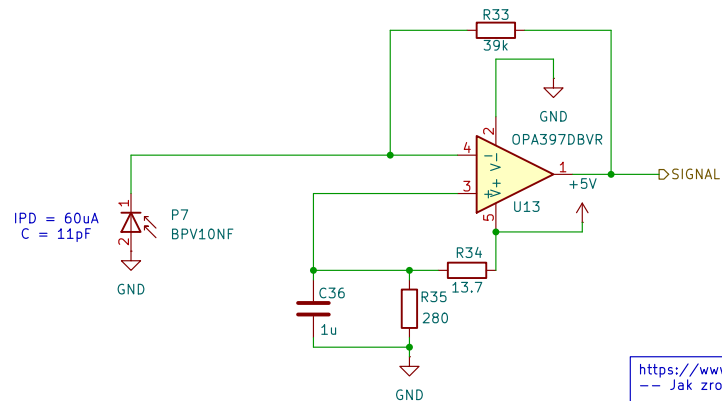
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Rev:

Id: 9/22

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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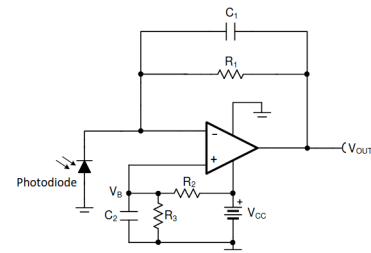


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_b = I_{PD}R_1 + V_{CC} \frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

Sheet: /Photodiodes/Photodiode6/
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Title:

Size: A4 Date:

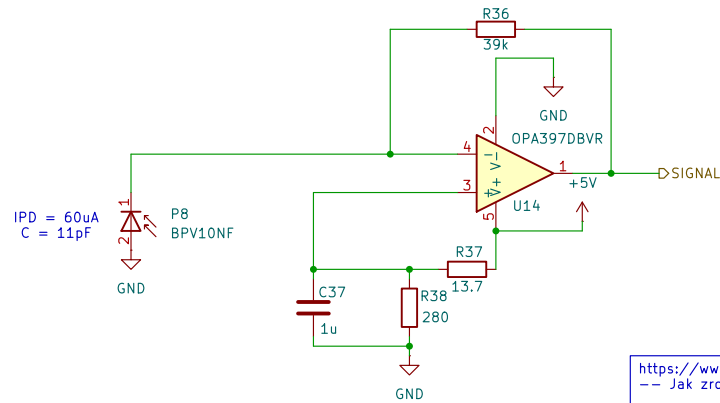
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Rev:

Id: 10/22

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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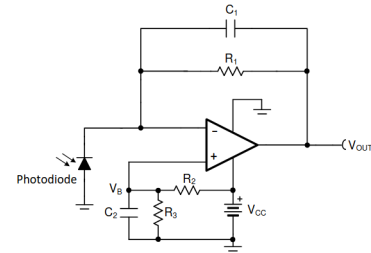


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC}\frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

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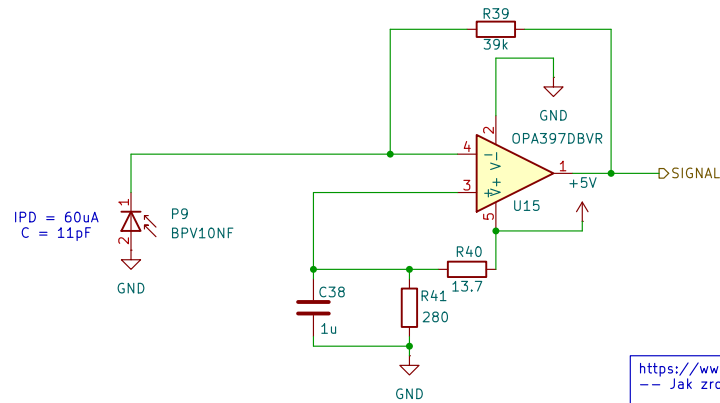
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Rev:

Id: 11/22

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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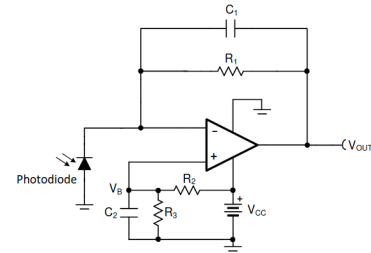


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC}\frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

Sheet: /Photodiodes/Photodiode8/
File: photodiode.kicad_sch

Title:

Size: A4

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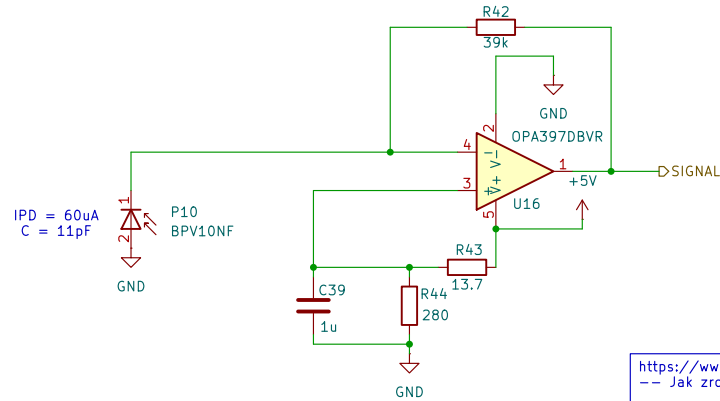
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Rev:

Id: 12/22

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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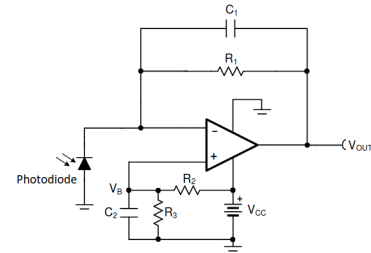


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC}\frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

Sheet: /Photodiodes/Photodiode9/
File: photodiode.kicad_sch

Title:

Size: A4 Date:

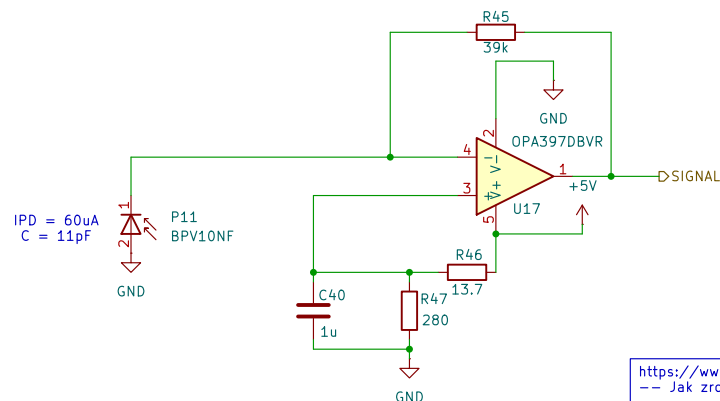
KiCad E.D.A. 9.0.6

Rev:

Id: 13/22

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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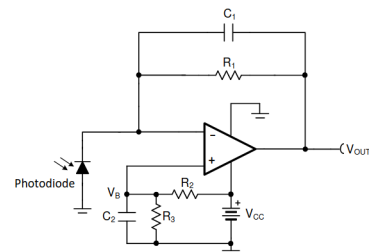


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC}\frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

Sheet: /Photodiodes/Photodiode10/
File: photodiode.kicad_sch

Title:

Size: A4 Date:

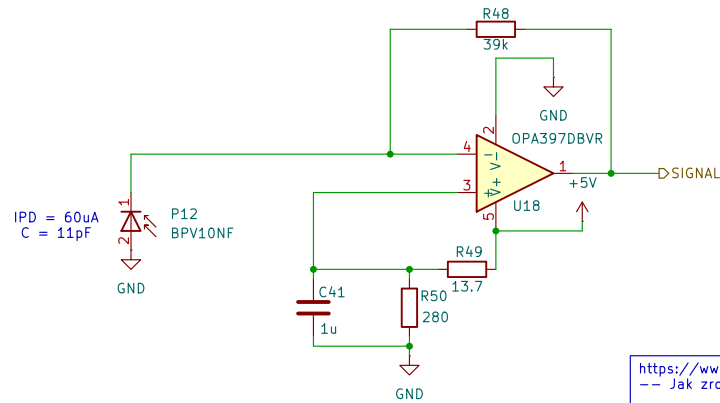
KiCad E.D.A. 9.0.6

Rev:

Id: 14/22

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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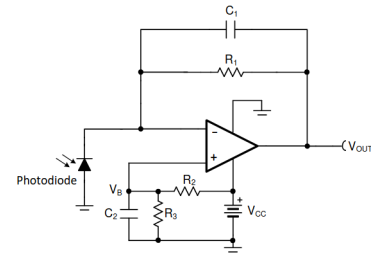


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC}\frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

Sheet: /Photodiodes/Photodiode11/
File: photodiode.kicad_sch

Title:

Size: A4 Date:

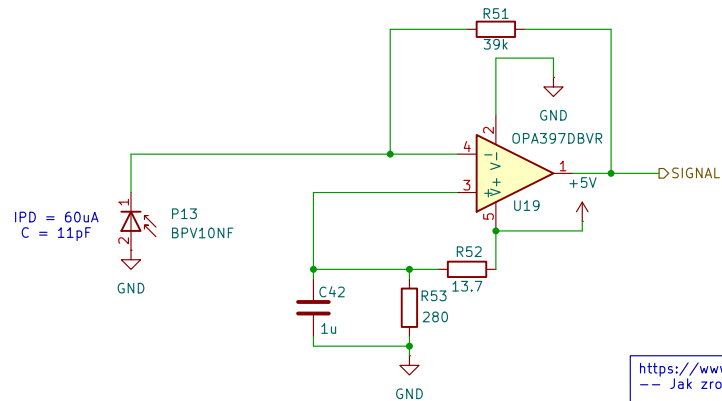
KiCad E.D.A. 9.0.6

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Id: 15/22

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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- łatwiejszy poradnik

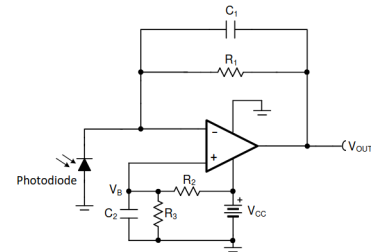


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC}\frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

Sheet: /Photodiodes/Photodiode12/
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Title:

Size: A4 Date:

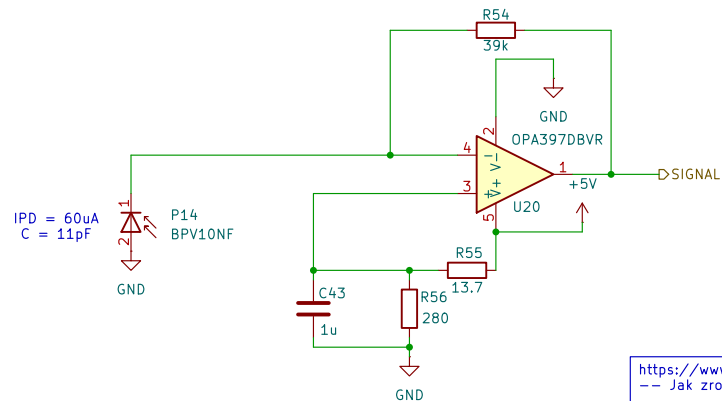
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Id: 16/22

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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- łatwiejszy poradnik

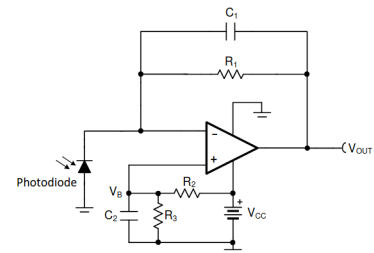


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC}\frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

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File: photodiode.kicad_sch

Title:

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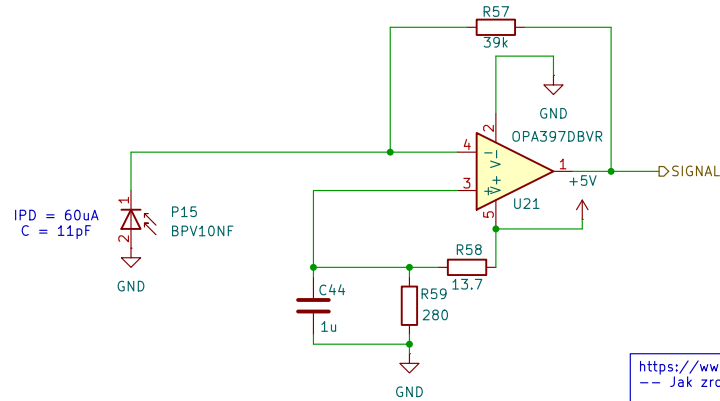
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Id: 17/22

Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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- łatwiejszy poradnik

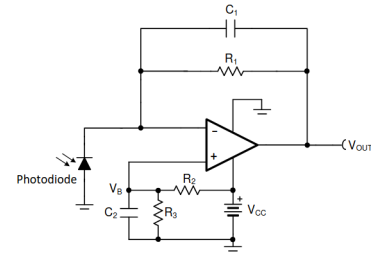


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC}\frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

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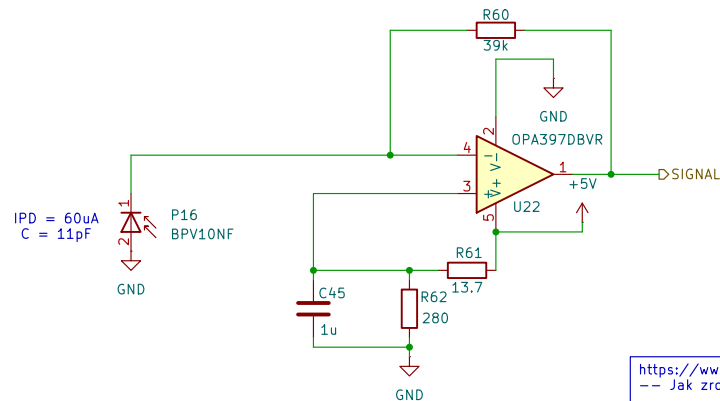
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Można zastanowić się nad zmianą wartości rezystora R1, ale to po zmianie procka i sprawdzeniu czy będzie działać. Obecnie jest zakres 0.1V–2.4V (chyba)

$$\frac{V_{OUT(MAX)} - V_{OUT(MIN)}}{I_{IN(MAX)}} = R_1 \rightarrow \frac{4.9V - 1V}{90\mu A} = 53333.3\Omega \rightarrow 53.6k\Omega$$



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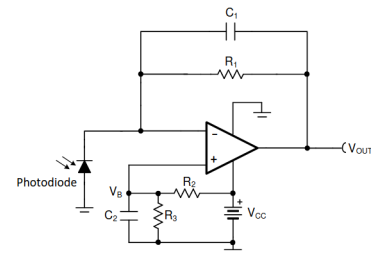


Figure 4: A bias voltage is applied to the op amp's non-inverting input to prevent saturation at the negative power supply

The output transfer function including the bias voltage is:

$$V_{OUT} = I_{PD}R_1 + V_B = I_{PD}R_1 + V_{CC} \frac{R_3}{R_3 + R_2} \quad (2)$$

KEY OPA128 SPECIFICATIONS

Bias current 75fA max
Offset voltage 500μV max
Drift 5μV/°C max
Noise 15nV/√Hz at 10kHz

Sheet: /Photodiodes/Photodiode15/
File: photodiode.kicad_sch

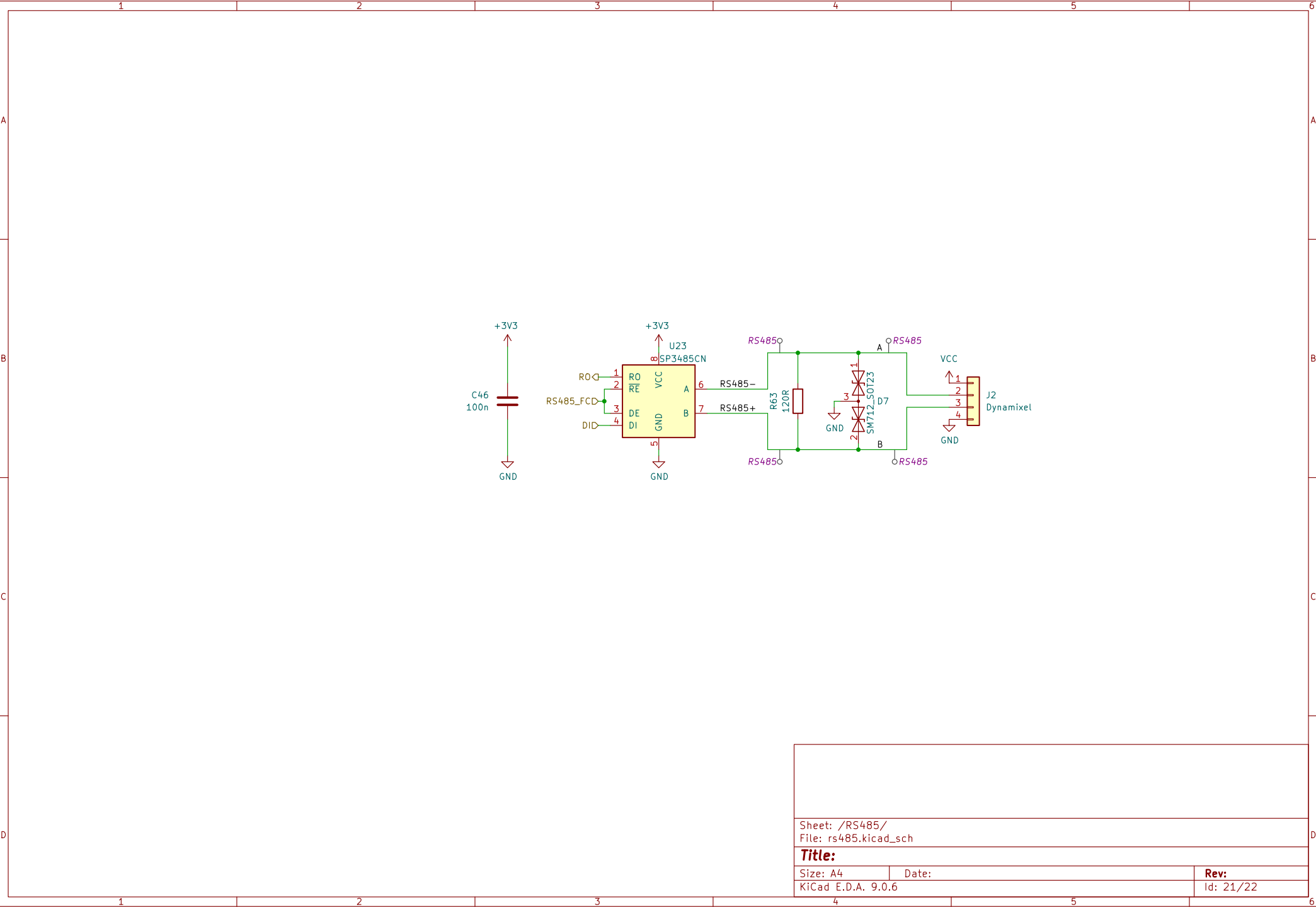
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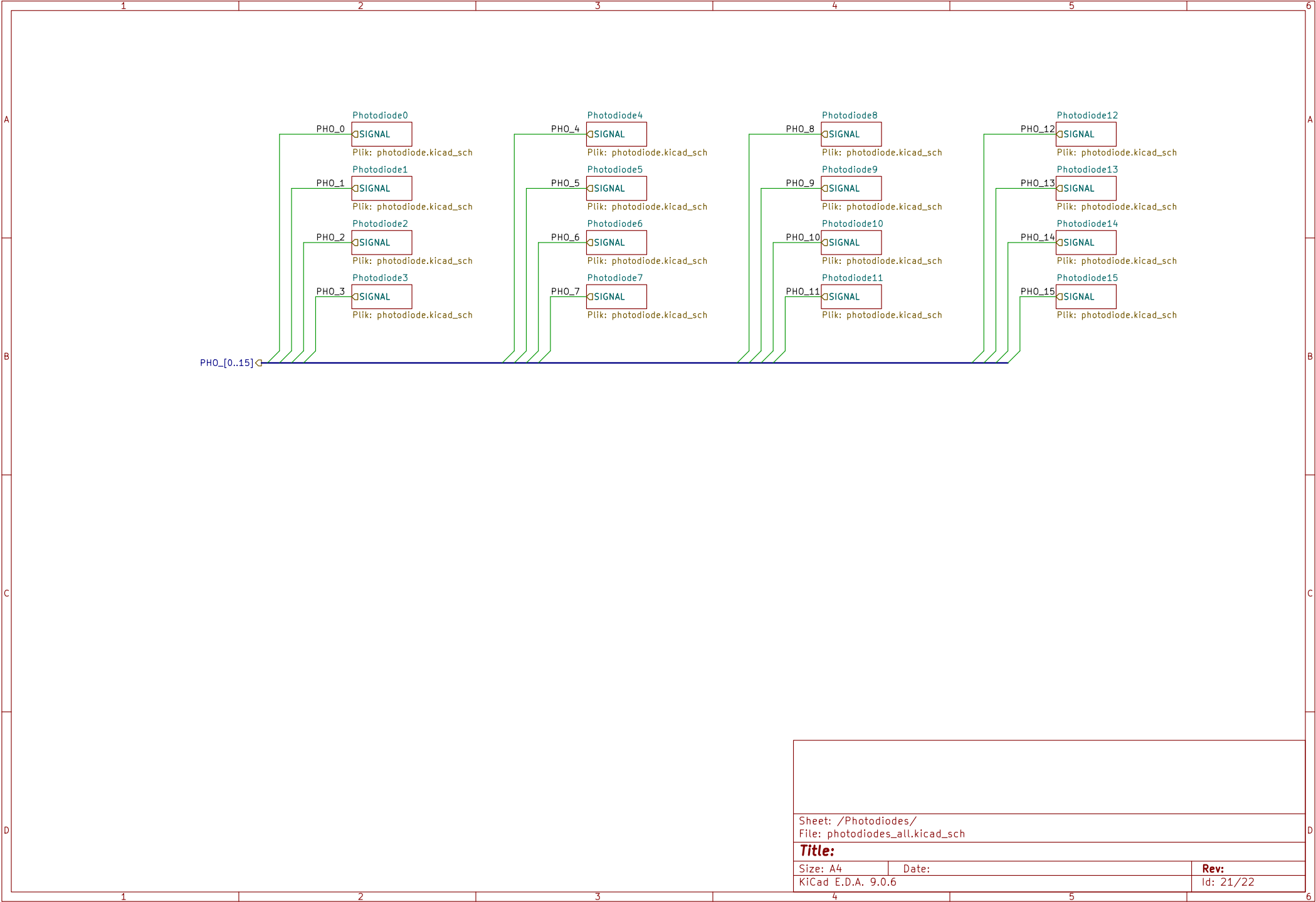
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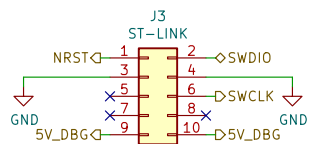
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Tutaj można przenieść RS485
Dodać UART do komunikacji z LiDarem
Może wyprowadzenie do ESP32 w formie komunikacji bezprzewodowej?



Sheet: /Communication/
File: communication.kicad_sch

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