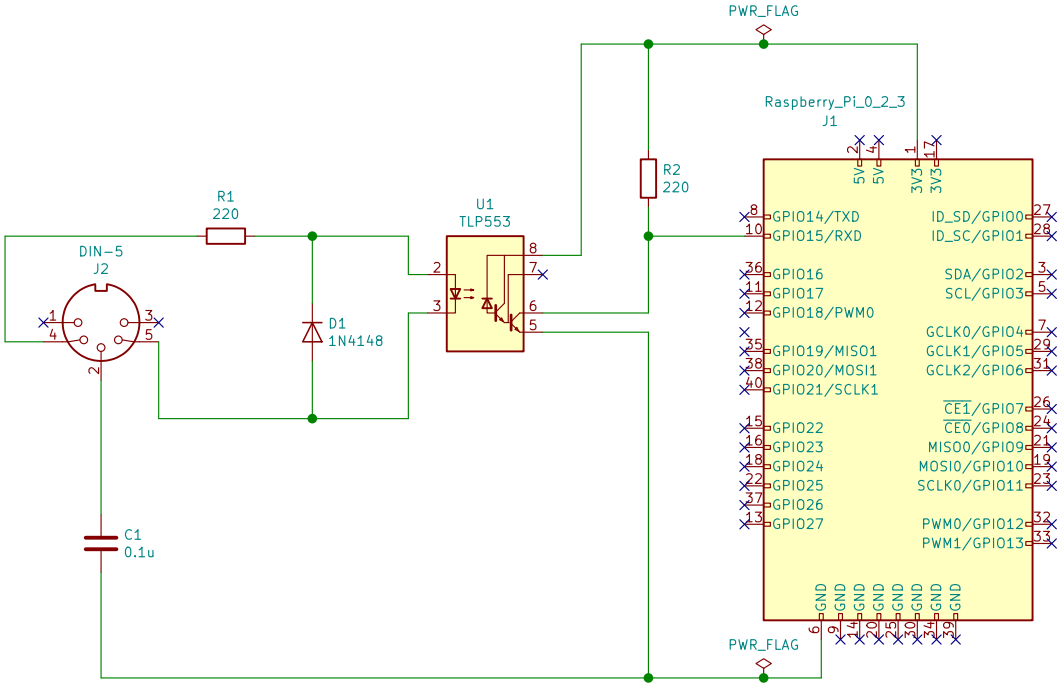
6N138, a high-speed photocoupler, is typically used as a part of MIDI IN.
Note that 6N138 is updated to 6N139, TLP553, and so on.

There are 6N137 which marks much more speed than 6N138.
However as a part of MIDI IN, 6N137 seems to need more power to transmit than the MIDI specification.

R2, the value of 220 ohms, needs lower resistance than the value driving with 5 volts (typically 470 ohms in 5 volts).

Some type of MIDI receiver made of a microcontroller seems to output MIDI THRU from its pin. It's a good idea to hold square wave without a Schmitt-trigger buffer.
Although, the delay time of MIDI THRU will depend on the inner process of the MIDI receiver.

1N4148 is an alternative to 1N914.



Only for The Purpose of Research and Development:
Never Connect with Your Instrument.
This Circuit May Damage Your Instrument.

JimmyKenMerchant

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Title: MIDI IN with 3.3V

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