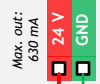


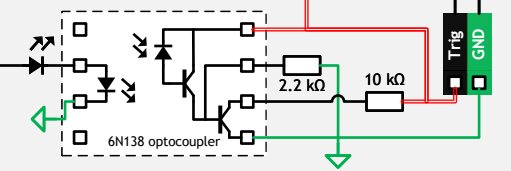
24 V power supply
TRACO TBLC-15-124



5 V power supply
TRACO TBLC-06-104



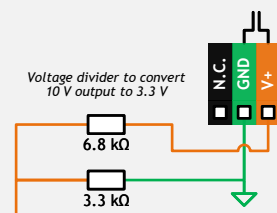
Trigger out



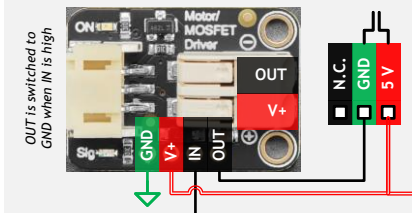
Note: active high at the microcontroller to pull the trigger signal low.

Droplet det. photodiode readout

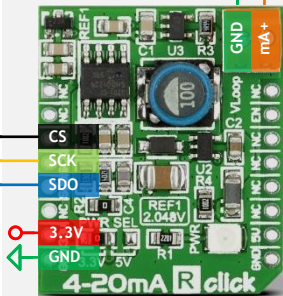
To PDA BNC cable (??? Core mantle)



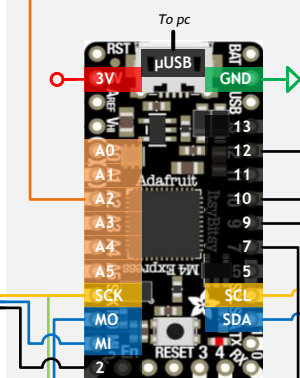
Droplet detection laser control
Adafruit MOSFET Driver



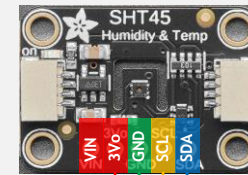
Pressure sensor readout
MIKROE 4-20 mA R-click



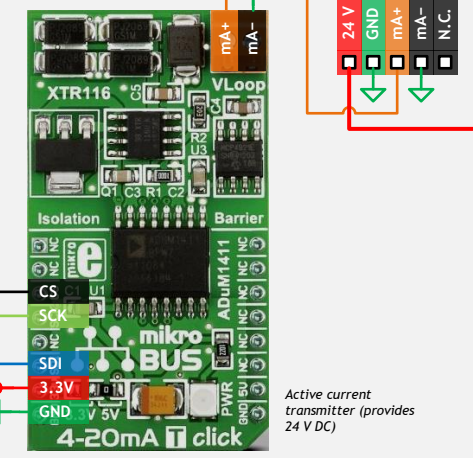
Microcontroller
Adafruit ItsyBitsy M4 Express



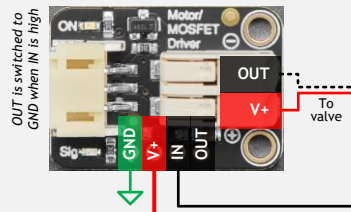
Humidity & temp. sensor
Adafruit SHT45



Valve #2 control
MIKROE 4-20 mA T-click



Valve #1 control
Adafruit MOSFET Driver



DESCRIPTION		DATE
Wiring diagram Twente Cough Machine		2025-12-05
DRAWN BY	URL	
Tommie Verouden	github.com/TFLVerouden/cough-machine-control	
		University of Twente Physics of Fluids