

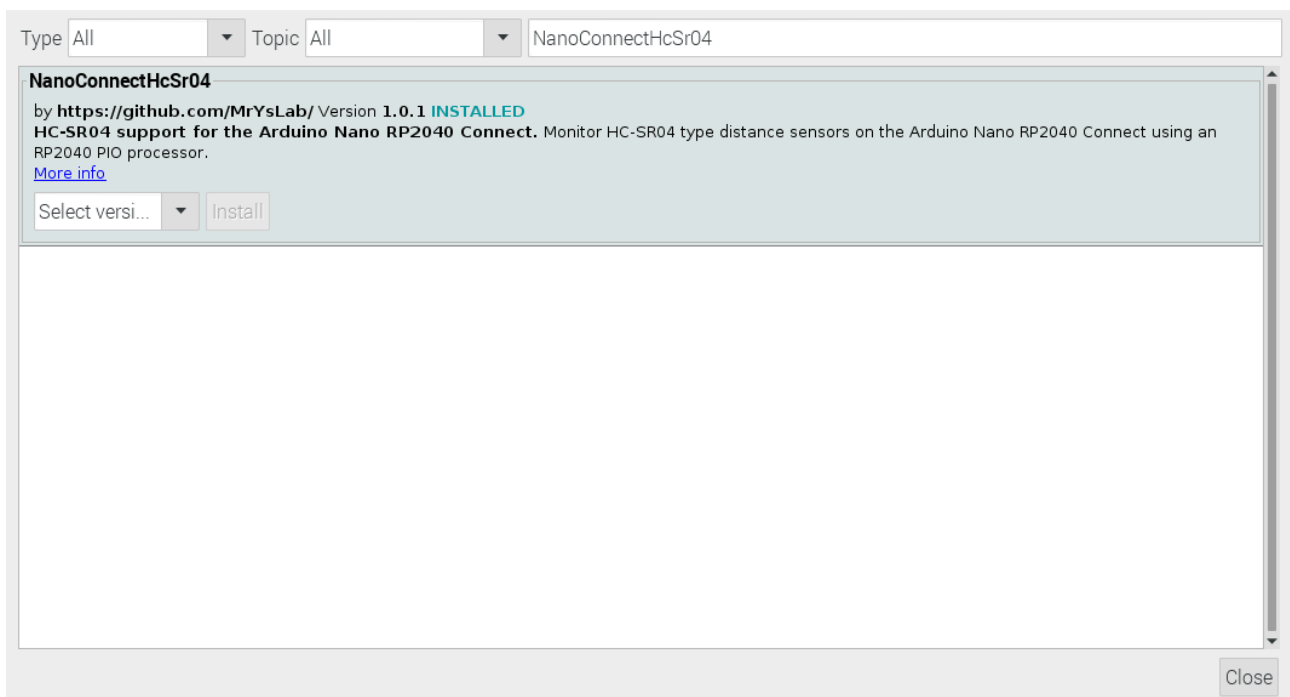
\*\*\*\*\*Default\*\*\*\*\*

**Programming Pico with Arduino IDE  
for Nano-RP2040-Connect  
Ultra Sonic sensor with PIO**

**generating trigger  
and receiving echo  
10/16/22**

\*\*\*\*\*Default\*\*\*\*\*

Arduino Library Manager



Github

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about:sessionrestore x MrYsLab/NanoConnect x +

← → ↻ <https://github.com/MrYsLab/NanoConnectHcSr04> ☆

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**MrYsLab** Fix static selection of pio0. 84c4121 on Mar 13 4 commits

examples/simple_sonar	Initial commit	15 months ago
src	Fix static selection of pio0.	7 months ago
LICENSE	Initial commit	15 months ago
README.md	added category string	15 months ago
library.properties	Fix static selection of pio0.	7 months ago

README.md

## NanoConnectHcSr04

An Arduino Nano RP2040 Connect library for HC-SR04 type ultrasonic distance sensors.

It is implemented using the RP2040 PIO processor.

**About**

Arduino Nano RP2040 Connect PIO-based library for the HCSR04 Ultrasonic Distance Sensor.

Readme  
AGPL-3.0 license  
2 stars  
2 watching  
3 forks

**Releases** 2

Bug fix - Allow user to select ... Latest  
on Mar 13  
+ 1 release

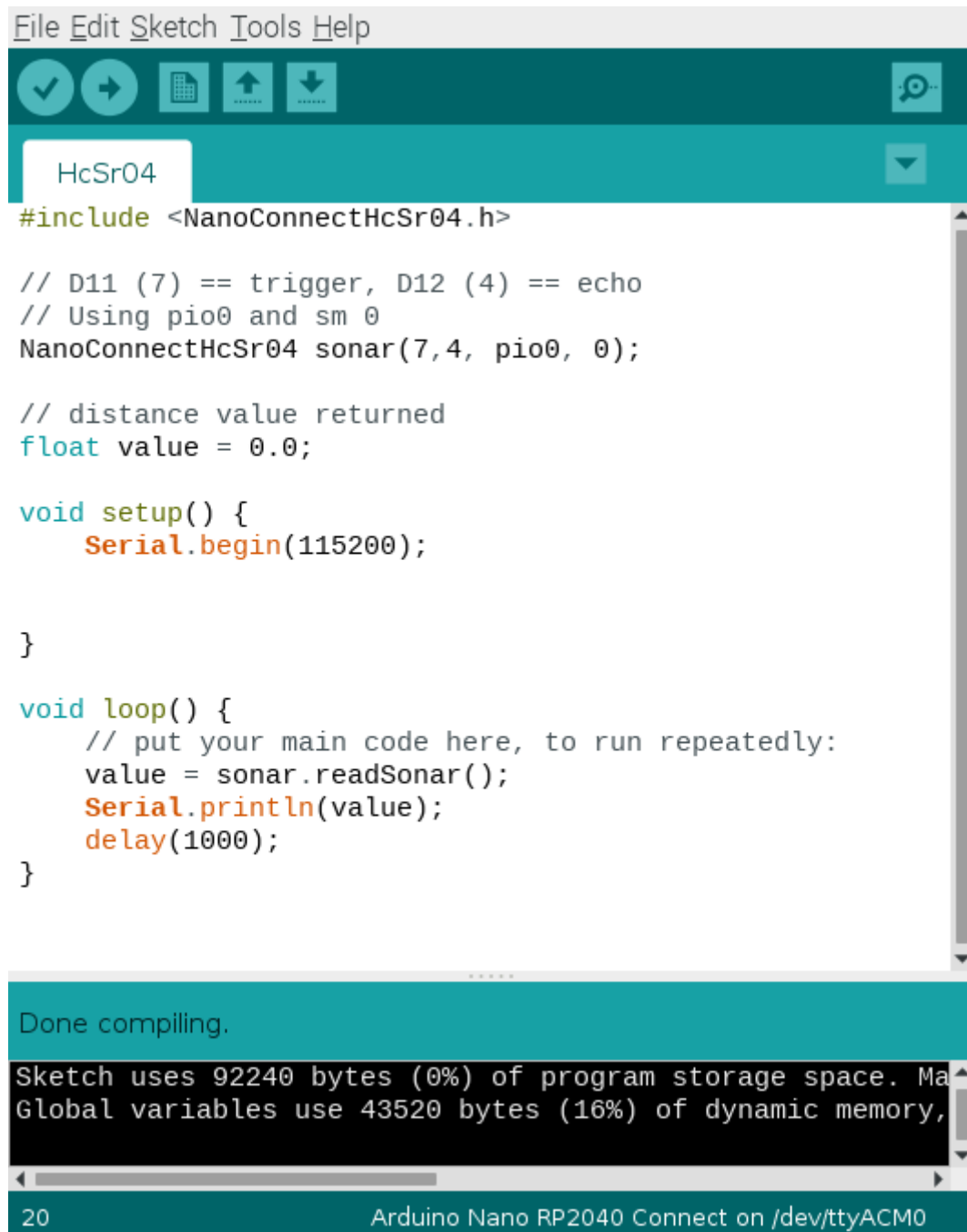
**Packages**

No packages published

<https://github.com/MrYsLab/NanoConnectHcSr04/blob/master/src/NanoConnectHcSr04.pio.h>

<https://github.com/MrYsLab/NanoConnectHcSr04/blob/master/src/NanoConnectHcSr04.cpp>

This sketch uses NanoConnectHcSr04 library



```
File Edit Sketch Tools Help
HcSr04
#include <NanoConnectHcSr04.h>

// D11 (7) == trigger, D12 (4) == echo
// Using pio0 and sm 0
NanoConnectHcSr04 sonar(7,4, pio0, 0);

// distance value returned
float value = 0.0;

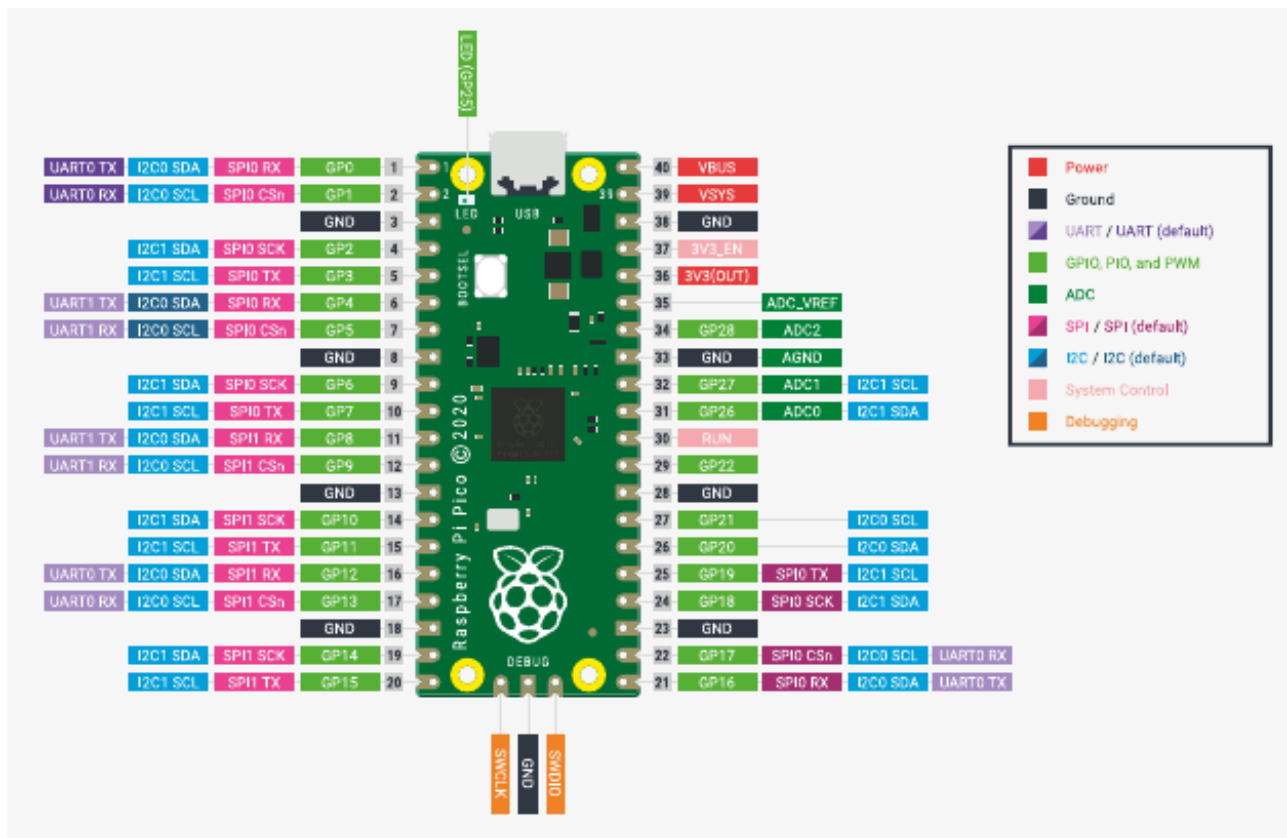
void setup() {
    Serial.begin(115200);
}

void loop() {
    // put your main code here, to run repeatedly:
    value = sonar.readSonar();
    Serial.println(value);
    delay(1000);
}

Done compiling.
Sketch uses 92240 bytes (0%) of program storage space. Max allowed is 1023936 bytes.
Global variables use 43520 bytes (16%) of dynamic memory, max allowed is 262144 bytes.

20 Arduino Nano RP2040 Connect on /dev/ttyACM0
```

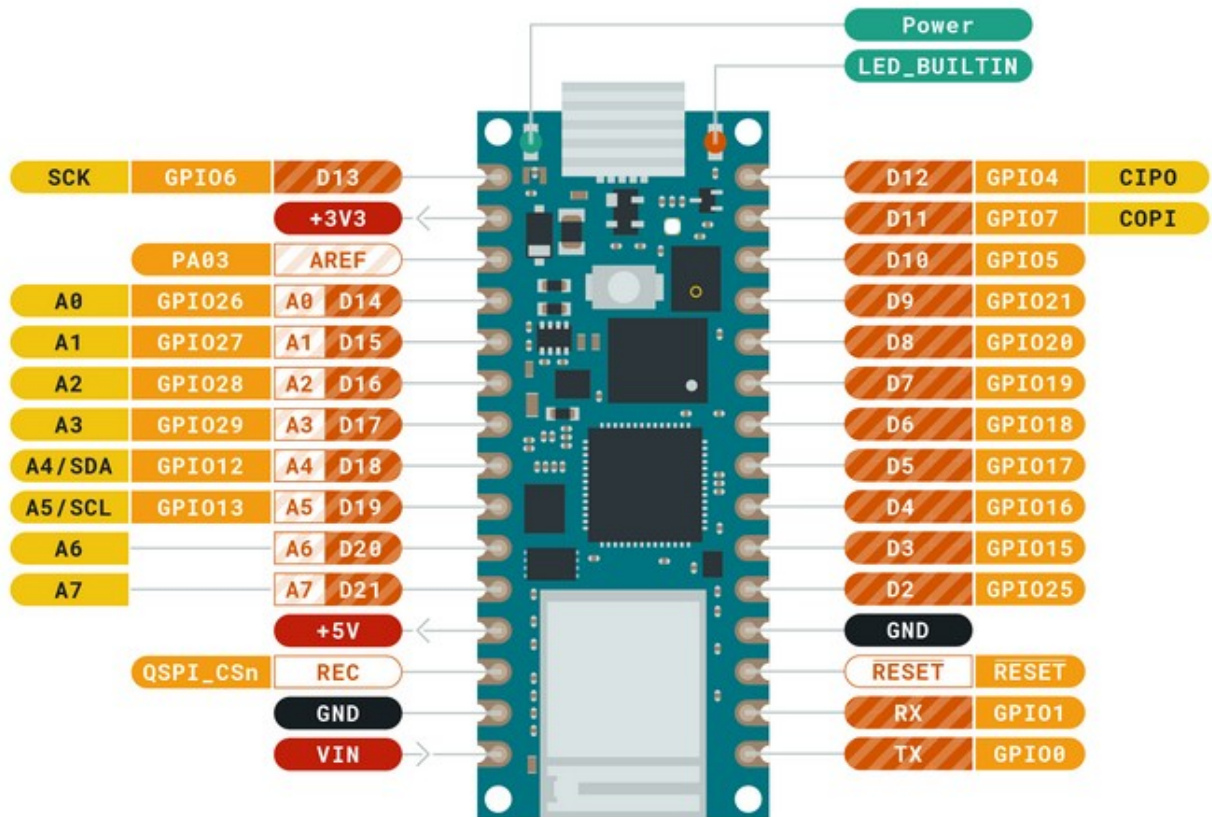
For the pico gpio 7 is pin 10 gpio 4 is pin 6



For the nano-rp2040-connect gpio 7 is pin 12 gpio 4 is pin 11



## ARDUINO NANO RP2040 CONNECT



Ground	Internal Pin	Digital Pin	Microcontroller's Port
Power	SWD Pin	Analog Pin	
LED	Other Pin	Default	

ARDUINO.CC



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```
File Edit Tabs Help
38.77
37.90
38.77
38.75
38.30
38.75
38.30
38.30
38.75
38.75
38.77
38.75
38.75
38.75
38.31
38.74
38.31
38.33
38.75
38.77
38.75
38.31
38.74
CTRL-A Z for help | 115200 8N1 | NOR | Minicom 2.8 | VT102 | Offline | ttyACM0
```

## Serial Port configuration

```
File Edit Tabs Help
19.10
19.54
19.54
19.5+-----+
19.5| A -   Serial Device       : /dev/ttyACM0
19.1| B - Lockfile Location    : /var/lock
19.5| C -   Callin Program      :
19.5| D -   Callout Program     :
19.5| E -   Bps/Par/Bits        : 115200 8N1
19.1| F - Hardware Flow Control : No
19.5| G - Software Flow Control : No
19.5| H -   RS485 Enable        : No
19.5| I -   RS485 Rts On Send   : No
19.5| J -   RS485 Rts After Send : No
19.5| K -   RS485 Rx During Tx  : No
19.5| L -   RS485 Terminate Bus : No
19.5| M - RS485 Delay Rts Before: 0
19.5| N - RS485 Delay Rts After : 0
19.5|
19.5|   Change which setting? █
19.5+-----+
19.54
19.54
```