

Hardware:

Sensor: M12 LJ12A3-4-Z BX 5v Inductive Proximity Sensor Switch LJ12A3 4mm Sensing Detection

<https://www.aliexpress.com/item/32960914588.html>

CPU: NodeMCU V2 CP2102

<https://www.aliexpress.com/item/32665100123.html>

Example image, posted by <https://tweakers.net/gallery/44267>



Connection

Sensor Wire	NodeMCU
Black	GND
Blue	D2
Brown	Vin (5V)

ESPEASY hardware

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Hardware Settings ?

Wifi Status LED

GPIO → LED:

Inversed LED:

Note: Use 'GPIO-2 (D4)' with 'Inversed' checked for onboard LED

Reset Pin

GPIO ← Switch:

Note: Press about 10s for factory reset

I2C Interface

GPIO ⇄ SDA:

GPIO → SCL:

Clock Speed: [Hz]

Note: Use 100 kHz for old I2C devices, 400 kHz is max for most.

SPI Interface

Init SPI:

Note: CLK=GPIO-14 (D5), MISO=GPIO-12 (D6), MOSI=GPIO-13 (D7)

Note: Chip Select (CS) config must be done in the plugin

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	Task	Enabled	Device	Name	Port	Ctr (IDX)	GPIO	Values
Edit	1	✓	Switch input - Switch	Waterpuls			GPIO-4	State: 1
Edit	2	✓	Generic - Dummy Device	Waterteller				Count: 0 : 0.00 : 0.00 : 0.00
Add	3							

Device: Switch input - Switch ? i

Name:

Enabled:

Sensor

Internal PullUp:

Inversed Logic:

Note: Will go into effect on next input change.

GPIO #:

Switch Type:

Switch Button Type:

Send Boot state:

Advanced event management

De-bounce (ms):

Doubleclick event:

Doubleclick max. interval (ms):

Longpress event:

Longpress min. interval (ms):

Use Safe Button (slower):

Data Acquisition

Interval: [sec] (Optional for this Device)

Values

#	Name
1	<input type="text" value="State"/>

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Task Settings

Device: Generic - Dummy Device ? i
 Name:
 Enabled:
 Output Data Type:

Note: Changing 'Output Data Type' may affect behavior of some controllers (e.g. Domoticz)

Data Acquisition

Interval: [sec]

Values

#	Name	Decimals
1	<input type="text" value="Count"/>	<input type="text" value="0"/>
2	<input type="text"/>	<input type="text" value="2"/>
3	<input type="text"/>	<input type="text" value="2"/>
4	<input type="text"/>	<input type="text" value="2"/>

Rules 1:

```

On System#Boot do
    timerset,6,30 // Data send Timer
Endon
On Rules#Timer=6 do //send data to domoticz
    timerset,6,10 // reset data send timer
    SendToHTTP <domoticz-ip,port>,/json.htm?type=command&param=udevice&idx=<meterIDX>&svalue=[Waterteller#Count] //send update to
domoticz
    TaskValueSet,2,1,0 //reset waterpuls counter
Endon

On Waterpuls#State do
    timerset,7,1
endon

On Rules#Timer=7 do
    TaskValueSet,2,1,[Waterteller#Count]+1
endon
  
```