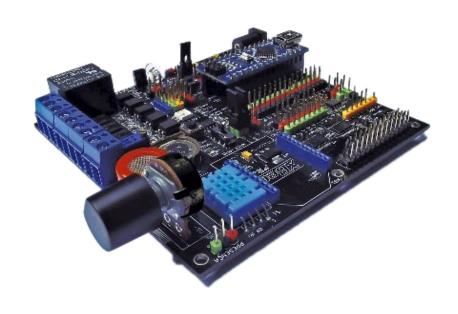


USING RELAY FOR CONTROLLING AN OUTLET





FILES FOR THIS CLASS

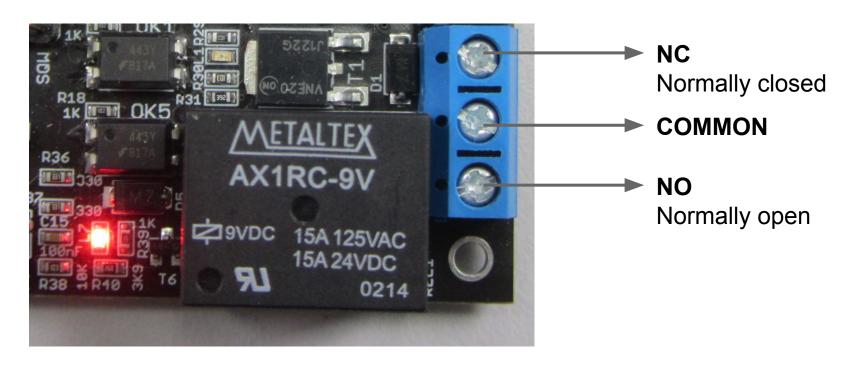
HTTPS://PORTALALUNO.TOOLSCLOUD.NET/REDMINE/PROJECTS/IOTSURFBOARD/FILES

☐ PRESENTATION: IOT_SURFING_CLASS_8_EN.PDF

USING ONBOARD RELAY

- ☐ RELAY IS AN ELECTROMAGNETIC SWITCH THAT CAN BE CONTROLLED DIGITALLY
- ☐ CAN CONTROL AC/DC LOADS (OUTLETS AND BATTERIES FOR EXAMPLE)
- □ TO MAKE IT SIMPLE: A RELAY TURN ON AND OFF "A WIRE"
- \square THE ONBOARD RELAY IS READY TO USE AND CAN CONTROL 5V DC, 12V DC, 110V
 - AC, 220V AC LOADS
- ☐ CURRENT LIMIT IS 10 AMPS

NC - COMMON- NO



NO: NORMALLY OPEN

IT MEANS THAT THE CONTACT BETWEEN THE CONNECTED WIRES ARE NORMALLY DISCONNECTED:

RELAY OFF = EQUIPMENT OFF

RELAY ON = EQUIPMENT ON

NC: NORMALLY CLOSED

☐ CONTACT BETWEEN THE CONNECTED WIRES ARE NORMALLY CONNECTED

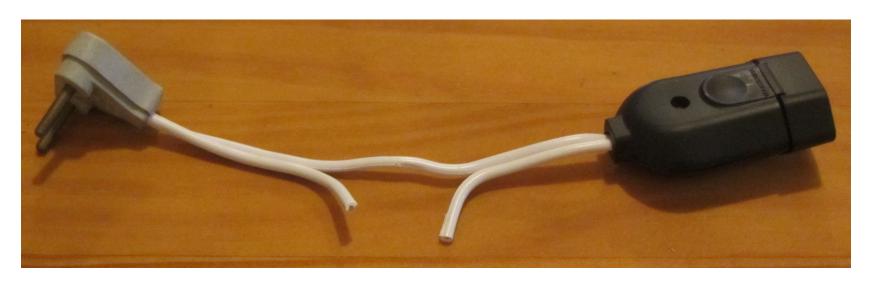
RELAY OFF = EQUIPMENT ON

RELAY ON = EQUIPMENT OFF

USE A SIMPLE EXTENSION CORD

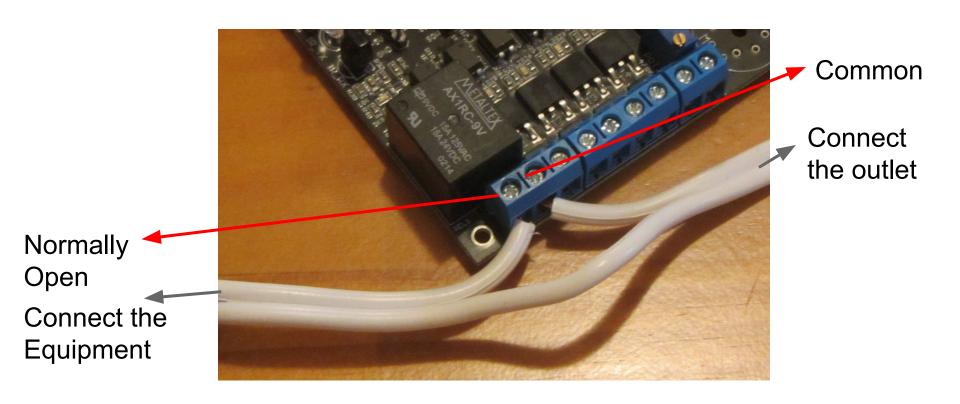


CUT ONE OF THE PHASES / WIRES



PEEL THE WIRES (40MM)

CONNECT THE IOT SURFBOARD



EXAMPLE OF USE

board.relay(board.alcohol()>400 ? 1 : 0);

LIVE DEMO



SUMMARY

- THE ONBOARD RELAY IS READY TO USE AND CAN CONTROL 5V DC, 12V DC,
 - 110V AC, 220V AC LOADS
- ☐ WE MUST RESPECT THE 10 AMPS LIMIT
- ☐ WE CAN CHOOSE WHETHER WE WANT TO CONNECT THE RELAY TO TURN ON OR OFF THE EQUIPMENT!

IOT SURFBOARD + RELAY = CAUTION IT CAN EXPLODE! (KABOOMFEELINGS)

