



Sistemas Ciber Físicos II. Cómputo en la Nube

# Contador de Tornillos

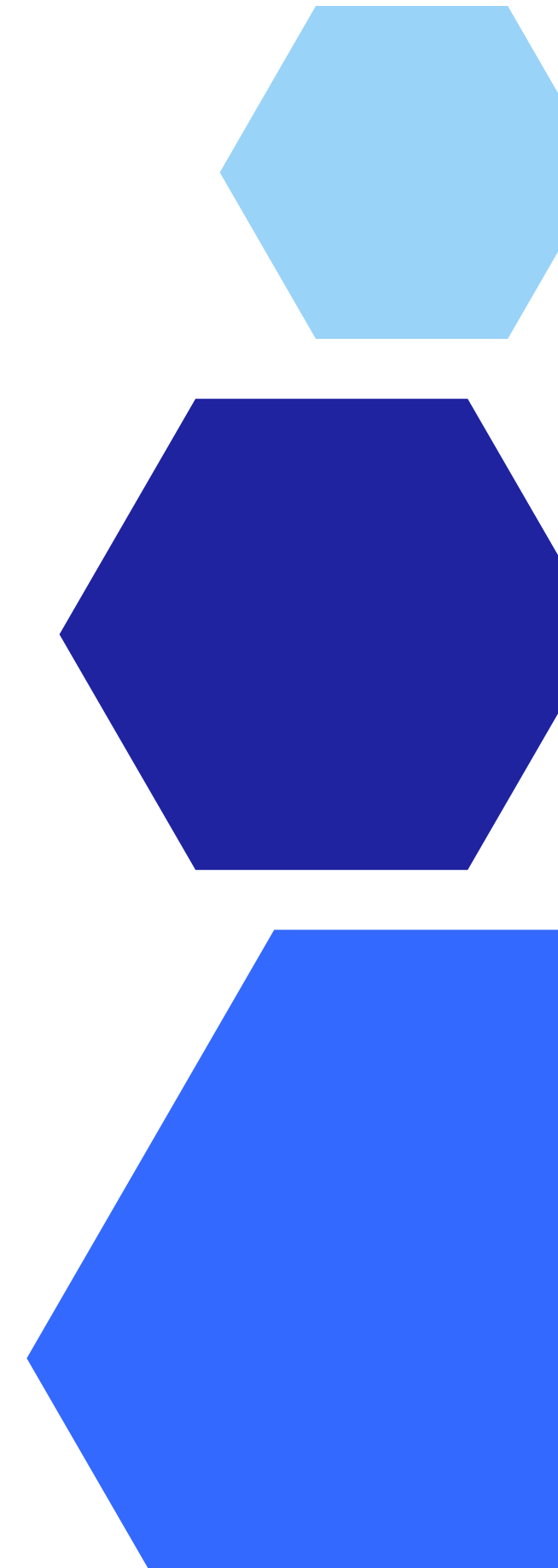
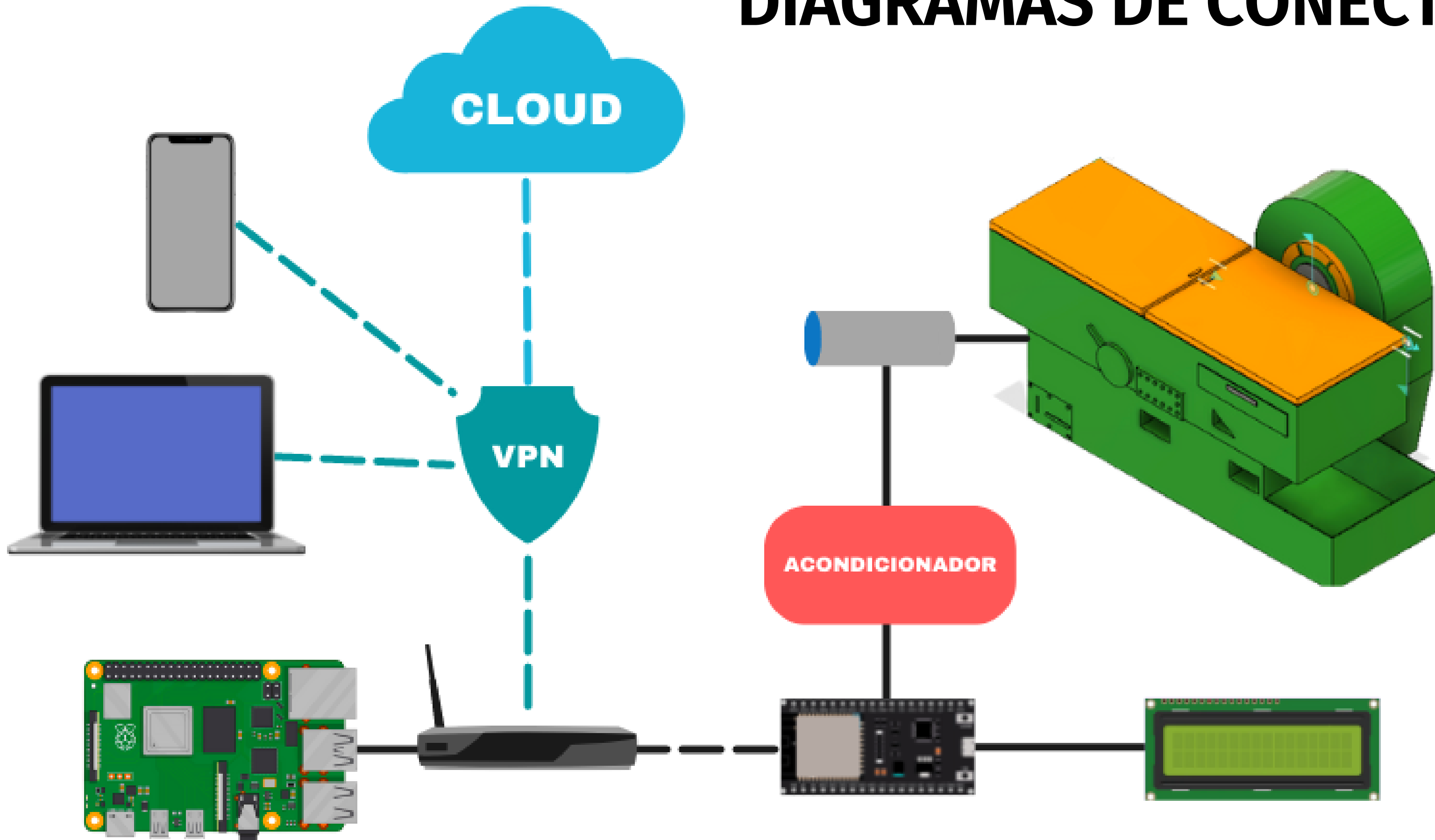
# Detector de Atasco

# Home Assistant

**Equipo A**



# DIAGRAMAS DE CONECTIVIDAD



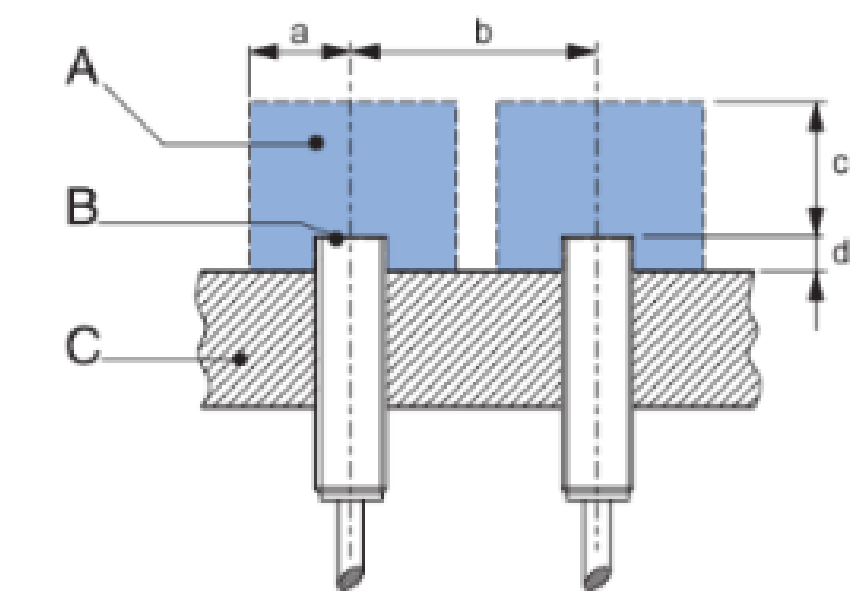
# DIAGRAMAS DE FUNCIONAMIENTO

## Sensor Inductivo DW-Ax-509-M30-3x0



INSTALLATION CONDITIONS

RESPONSE DIAGRAM



- A : metal free zone

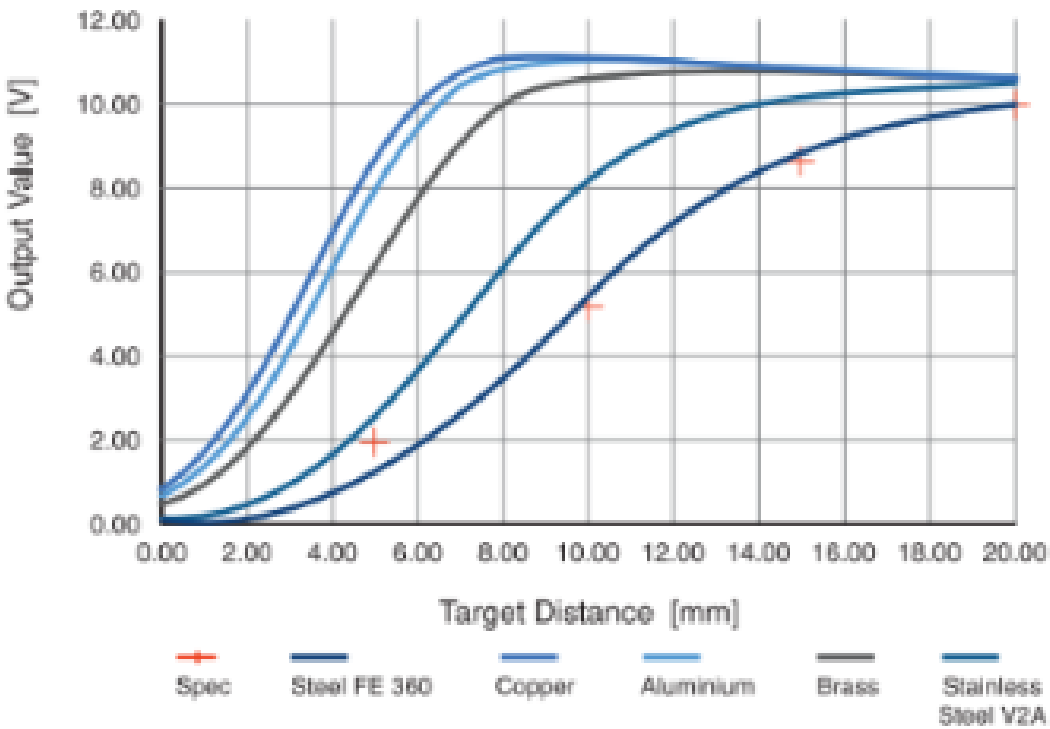
B : sensing face

C : support
- a : 35 mm

b : 80 mm

c : 60 mm

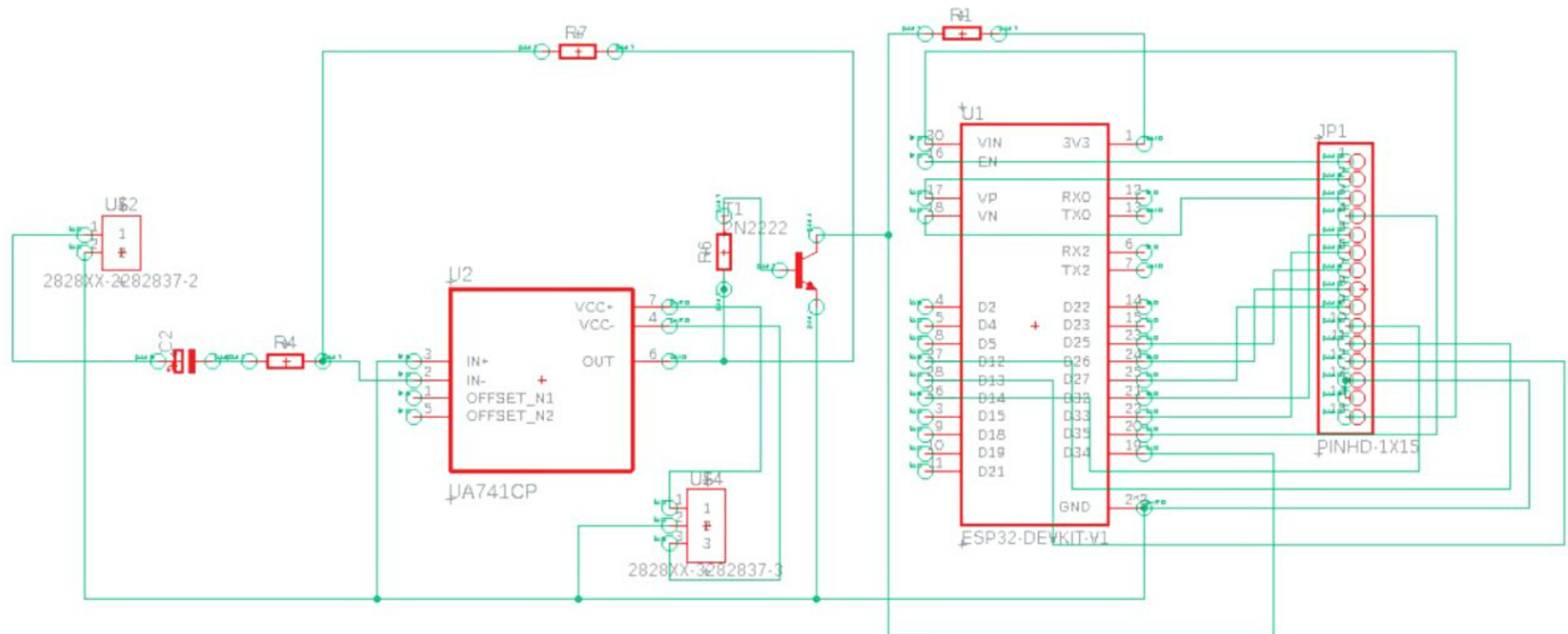
d : steel 4 mm



Note: additional installation information can be found in the glossary of the Contrinex General Catalog.

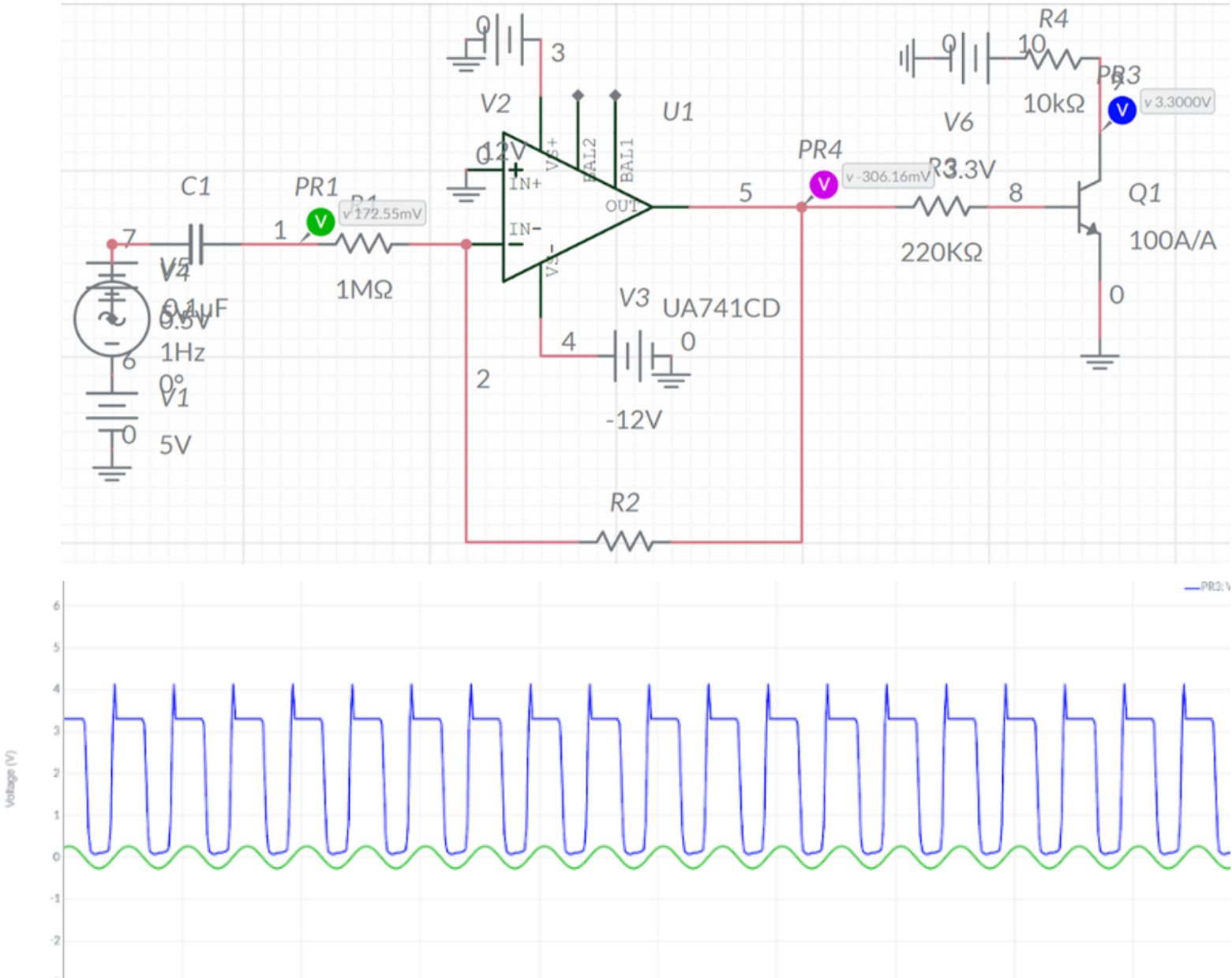
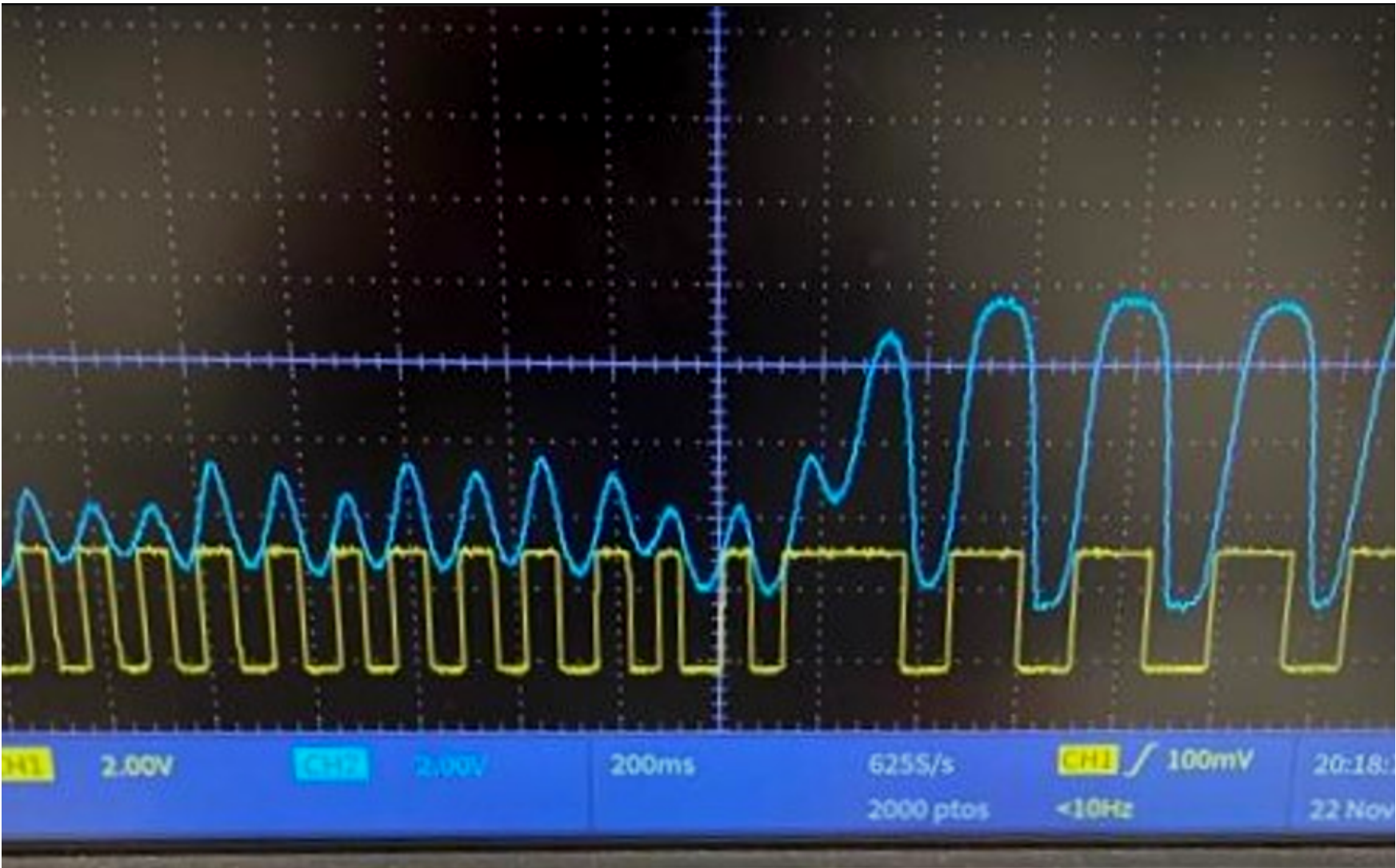
Output voltage	s = 0 mm	0 V / -0.0 +0.4 V	Output current	s = 0 mm	4 mA ± 0.8 mA
	s = S <sub>d</sub> /2 mm	+5.2 V ± 0.4 V		s = S <sub>d</sub> /2 mm	12.3 mA ± 0.8 mA
	s = S <sub>d</sub> mm	+10.0 V ± 0.4 V		s = S <sub>d</sub> mm	20 mA ± 0.8 mA
	s > S <sub>d</sub> mm	+10 ... 12 V ± 0.4 V		s > S <sub>d</sub> mm	+20 ... 23 mA ± 0.8 mA

# DIAGRAMA DE CONEXIONES



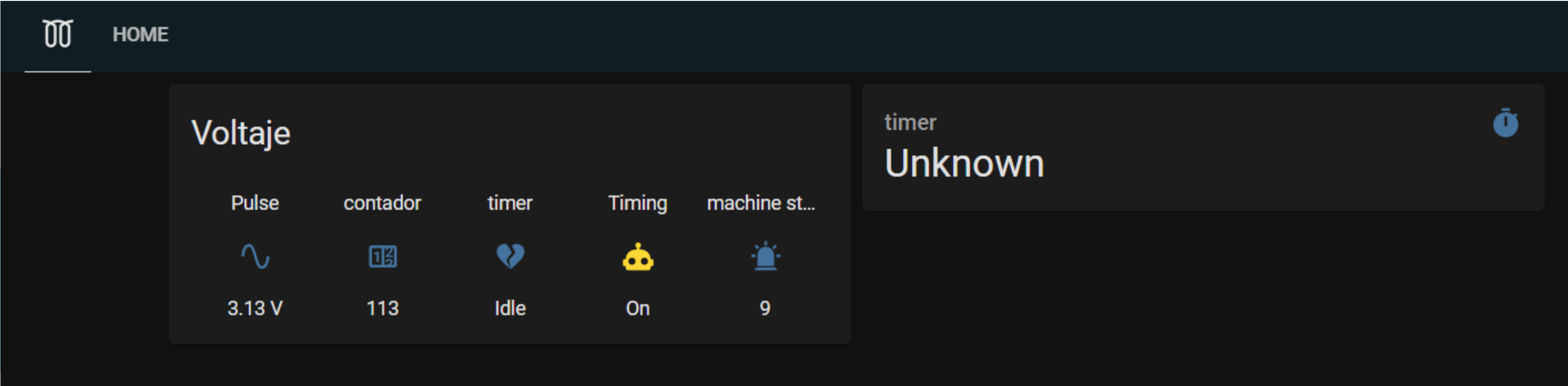
# ACONDICIONAMIENTO DE SEÑALES

OPAMPs











# DASHBOARD



# ACCIONES

				Integrations	Devices	Entities	Helpers
 Search							
 Name		Entity ID				Type	
	contador	counter.contador				Counter	
	machine stops	counter.machine_stops				Counter	
	timer	timer.timer				Timer	

A decorative graphic in the top right corner consisting of two overlapping hexagons. The hexagon in the foreground is a light blue color, while the one behind it is a darker blue. They are positioned such that they appear to be part of a larger geometric pattern.

# Demo



# **VENTAJAS DEL** **CLOUD COMPUTING**

Disponibilidad

Reducción de costos

Acceso geográfico Ilimitado

Escalabilidad



Two overlapping hexagons in the top right corner. The front hexagon is light blue, and the back one is a darker blue.

**¡Gracias!**