TASK: Wiring dc-motor and contactor

Materials: HoloLens, one computer, circuit board, wiring diagram, 3D-models, pictures and videos

Instructions:

I. DC-motor control

- **We are now going to guide you how to wire 2-way controled DC-motors control relays.**

You can watch video of the working dc-motor control circuit on left side of the instruction.

- **Contactor**

A contactor is an electrically-controlled switch. A contactor is typically controlled lower power level than the switched circuit,
such as a 24-volt coil electromagnet controlling a 230-volt motor switch.

- **MPC = Motor Protection Circuit**

MPC is an electromechanical device that performs three important functions upstream of an electric motor: isolation,
motor protection against overload and short circuit, control of the motor (on/off).

- **Do you remember what MPC is?**

Yes

No

- **Let's check our tools**

You should only need these two screwdrivers for connecting wires on their places. Use correct tools. Big screwdriver is for relays K1, K2 and button terminals X3, X4. Small screw driver is for terminal blocks.

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- **Wiring**

We are going to show you one way to wire this system and we have set numbers for some wires to help you.

Take wire 1 from X1:7 and connect it to K1:A1+

After that it's easiest to connect wire no. 2 from X2:2 to K1:A2-

Connect wire no. 3 from X2:2 to MPC:L3

Connect wire no. 4 from X1:9 to MPC:T3

Connect wire no. 5 from MPC:T2 to MPC:T1

Connect wire no. 6 from S2:1 to X1:4

- **Congratulations! You've successfully completed this guide.**