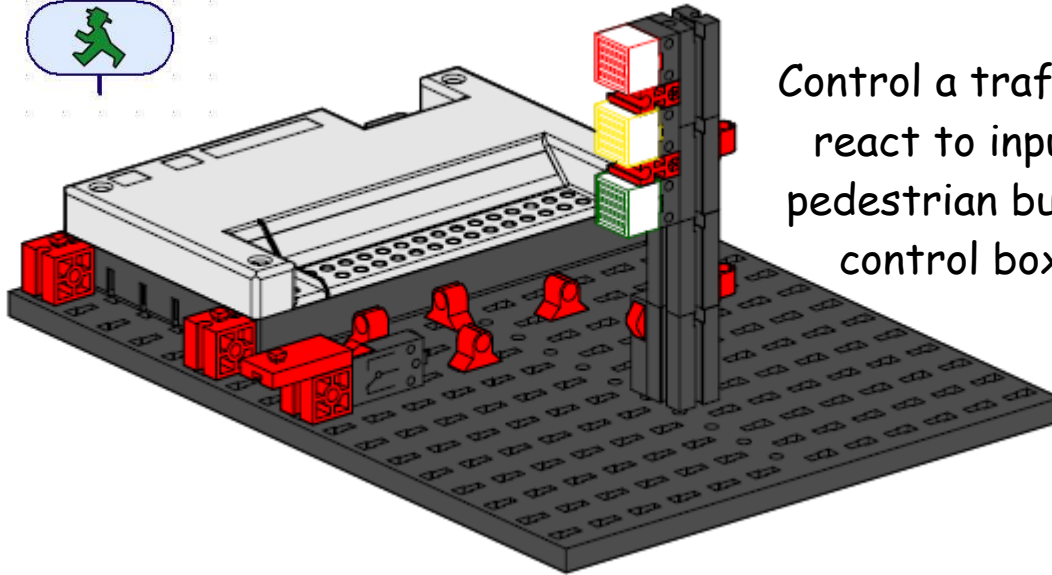


Robotics

Science 8



Model 3: The Traffic Light



Control a traffic light to react to input from a pedestrian button and a control box switch

Assemble the model:

Step 1: Build the Traffic Light Model as shown in these assembly instructions.

Step 2: Wire two pushbutton switches to the **digital inputs I1 - I8** on the interface.

Step 3: Wire the 3 lights to the **outputs M1 - M4** on the interface.

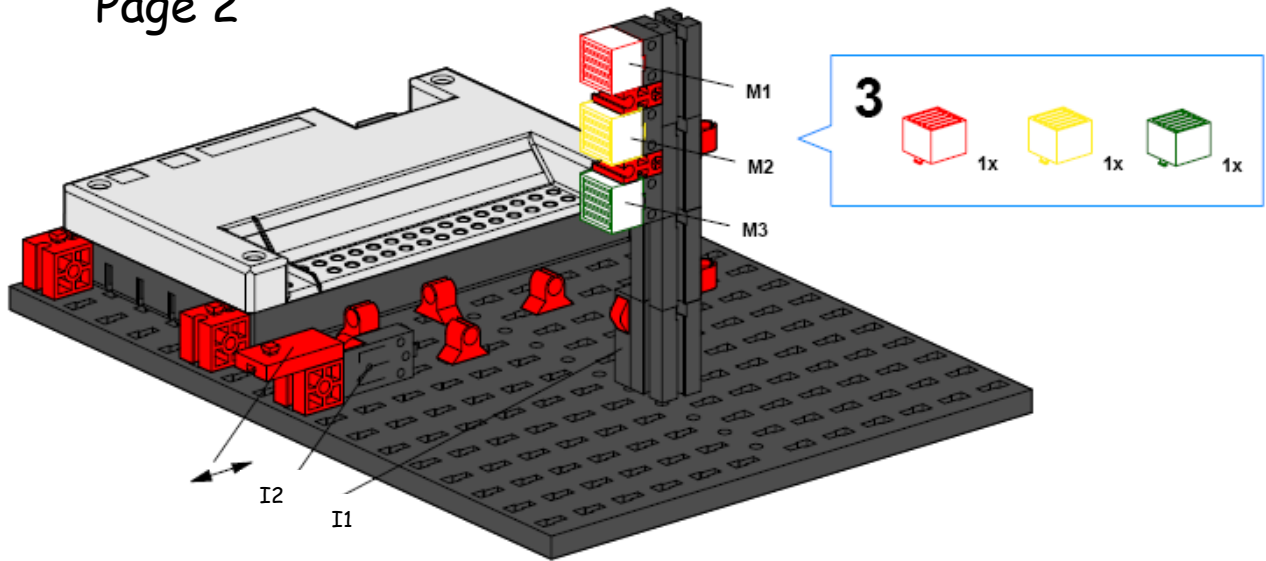
Programming Tasks:

Task 1: The traffic light should normally be green. If the pedestrian button is pressed (switch #1), the light will stay green for 3 seconds and then turn yellow. The light will stay yellow for 4 seconds and then turn red. The light will stay red for 10 seconds and then turn back to green until the pedestrian button (switch #1) is pressed again.

Task 2: Modify your program so that it will function as above until the control box switch (switch #2) is pressed. This will cause the lights to change to blinking yellow.

Model 3 - The Traffic Light

Assembly Instructions Page 2



Wiring Diagram

Note: our interface looks a little different from this picture.

