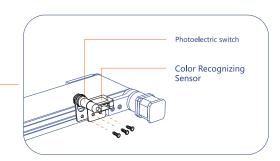
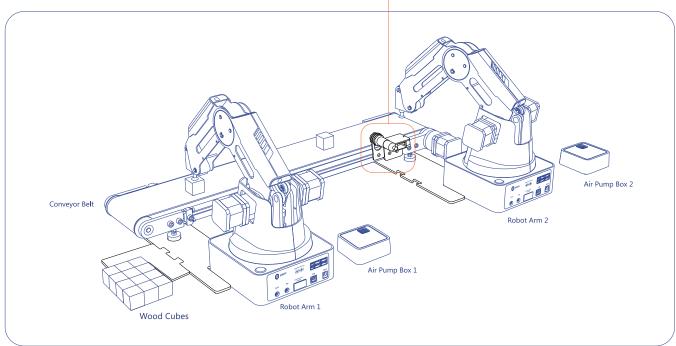
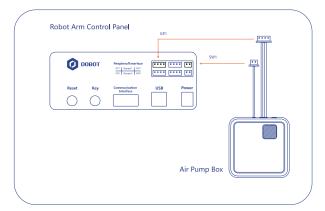
# **Conveyor Belt DEMO Instruction**

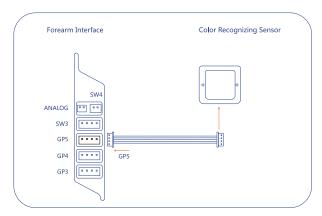




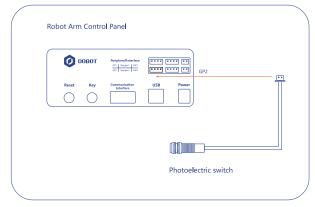
Install the sensors and place the robot arms, conveyor belt and wood cube as shown in the picture.



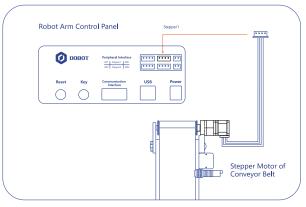
Connect Air Pump Boxs to Robot Arm 1 & 2



Connect Color Recognizing Sensor to Robot Arm 2



Connect Photoelectric switch to Robot Arm 2



Connect Stepper Motor to Robot Arm 1

## sensor Instructions

### — Color Recognizing Sensor Instructions

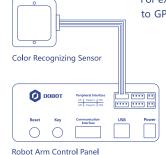
**Function**: The color recognition sensor can identify three basic colors: Blue, Green, Red. It outputs the related color information through the IO1 and IO2 composite states.

Connection: Connect the Peripheral Interfaces of the Dobot: GP1, GP2, GP4, GP5.

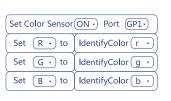
# Color Recognizing Sensor

#### **Instructions:**

(1) Use the color recognition sensor block preset in the Blockly module to get the color states.



For example: Connect color recognition sensor to GP1. R, G, B are the variables to store the related results.



(2) Search IO composite states to get the color information:

Color Information	I01	I02
Red	0	0
Green	0	1
Blue	1	0
None	1	1

The related variable value is 1 and other variable values are 0 when the color recognition sensor corresponds to the related color value.

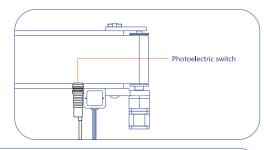
For example: when a red block is recognized, the result values are: R=1, G=0, B=0.

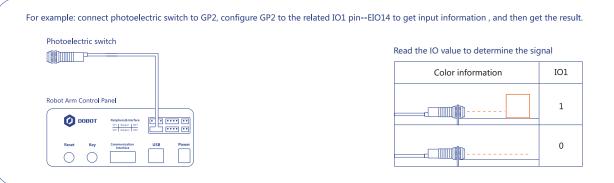
### 二、Photoelectric Switch Instructions:

Function: Detect whether there are objects in front of the Photoelectric Switch or not.

Connection: Connect the Peripheral Interfaces of the Dobot: GP1, GP2, GP4, GP5.

**Instructions:** Read IO value to Detect.





Addressing of Peripheral Interface IO:

