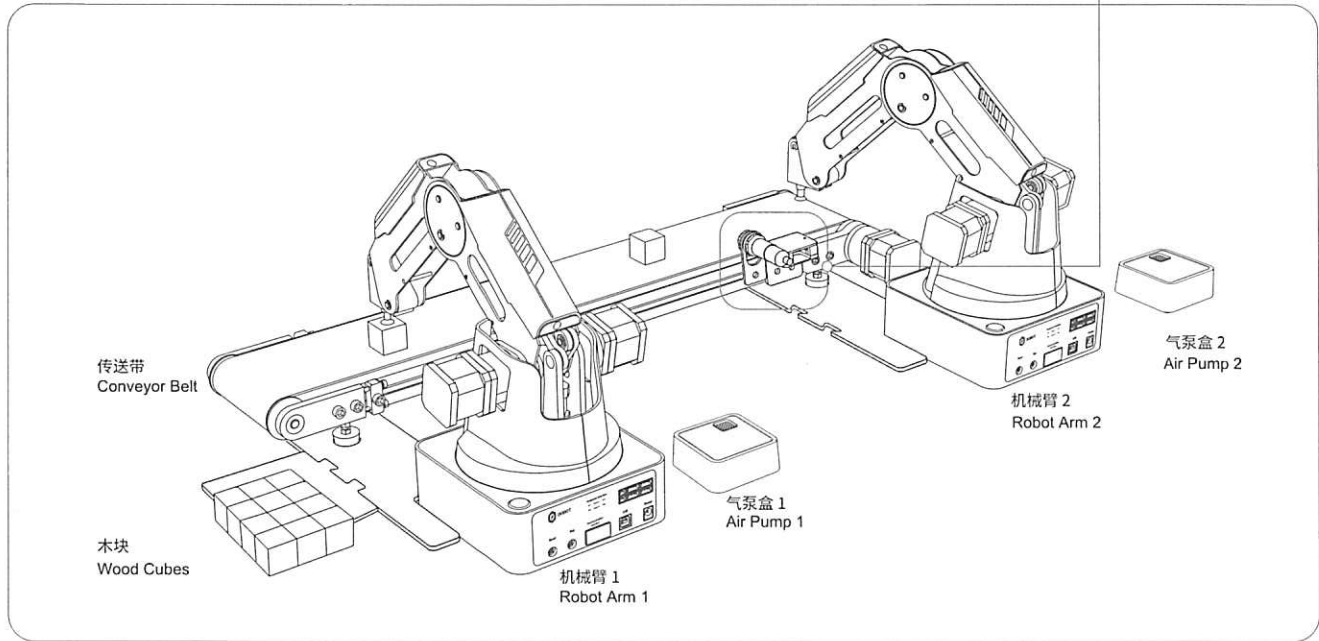
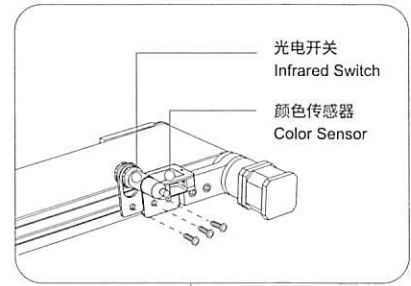


传送带示例安装说明

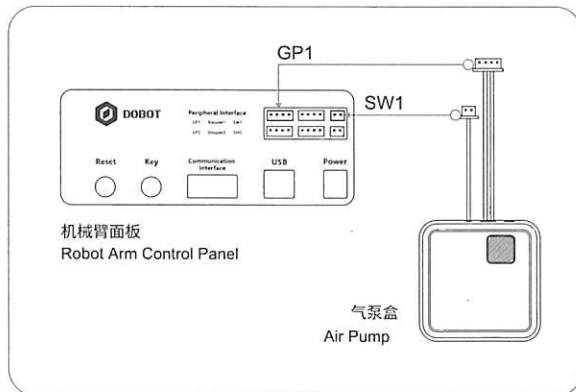
Conveyor Belt Demo Instruction

按照图示安装传感器，并按定位板位置来放置机械臂、传送带与木块。
Install the sensors and place the robot arms, conveyor belt and wood cubes as shown in the following picture.



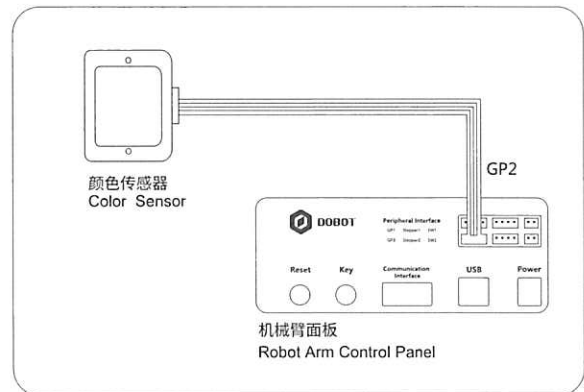
1. 机械臂1、机械臂2分别接上气泵盒

Connect air pumps to robot arm 1 and robot arm 2



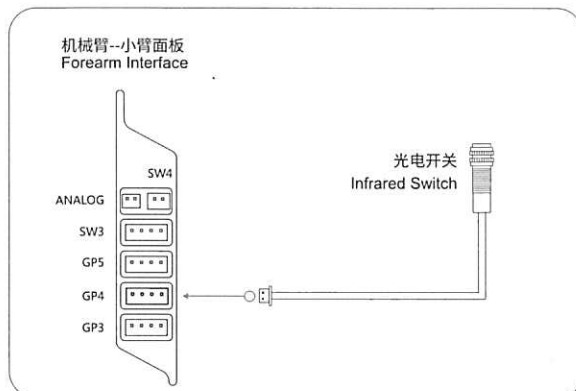
2. 机械臂2接上颜色传感器

Connect color sensor to robot arm 2



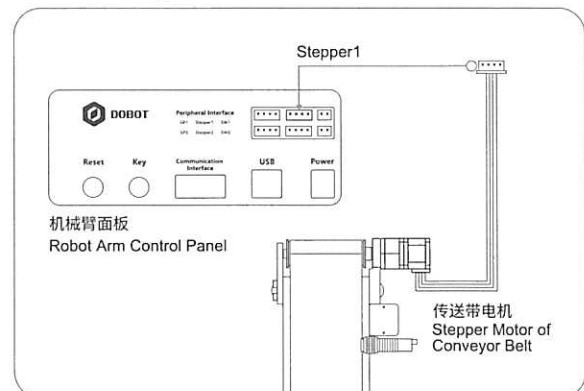
3. 机械臂2接上光电开关

Connect infrared switch to robot arm 2



4. 机械臂1连上传送带电机

Connect stepper motor to robot arm 1



传感器使用说明

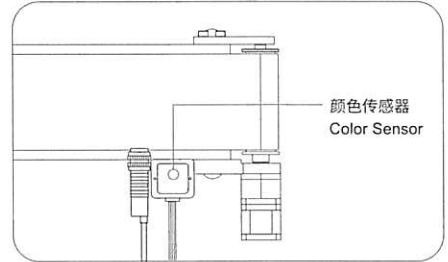
Sensor Instructions

一、颜色传感器使用方法 / Color Sensor Instructions :

注意 Note V1版本颜色传感器连接V2版本机械臂时，只能使用GP2接口。
When connect color sensor V1 to robot arm V2, only GP2 is valid.

功能: 颜色传感器通过通信方式识别3种基本的颜色: 蓝色、绿色、红色。
连接: 与机械臂的通用接口相连, 如 GP1、GP2、GP4、GP5。

Function: The color sensor can identify three basic colors: Blue, Green, Red by communication.
Connection: Connect to the peripheral interfaces of the robot arm: GP1, GP2, GP4, GP5.

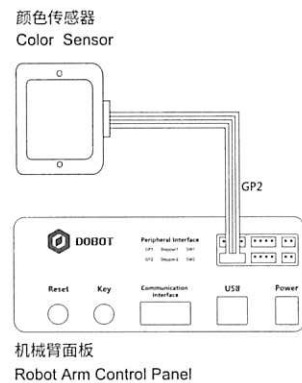
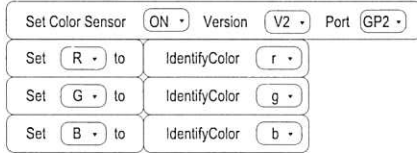


使用方式/Instructions:

- 在BLOCKLY中调用预置的颜色传感器模块，直接获取颜色状态。
举例: 连接颜色传感器到GP2, R、G、B为设置的变量用于保存相应的结果。
Use the color sensor blocks in the Blockly module to get the color states.
For example: Connect color sensor to GP2. R, G, B are the variables to store the related results.
- 当颜色传感器对应到相应的颜色值时，对应的变量值为1,其他变量值为0。
举例: 如检测红色木块，得到的结果为: R=1, G=0, B=0。



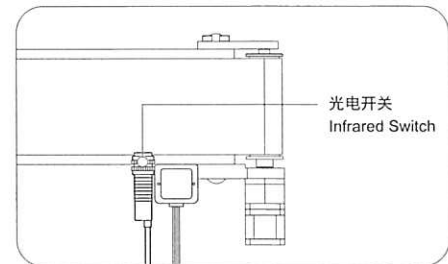
The related variable value is 1 and other variable values are 0 when the color sensor corresponds to the related color value.
For example: When a red wood cube is recognized, the result values are: R=1, G=0, B=0.



二、光电开关使用方法 / Infrared Switch Instructions:

功能: 检测开关前方一定距离是否有物体。
连接: 与机械臂的通用接口相连, 如 GP1、GP4、GP5。

Function: Detect whether there are objects in front of the infrared switch.
Connection: Connect to the peripheral interfaces of the robot arm: GP1, GP4, GP5.



使用方式/Instructions:

读取I/O值进行判断/Read I/O value to Detect.

举例/Example (1):
将光开关接口接入GP1, 配置GP1对应的引脚获得结果。
Connect Infrared switch to GP1, configure GP1 to get the results.

举例/Example (2):
如检测到物体，得到的结果为1, 否则为0。
When an object is detected, the result value is 1, or else the value is 0.



读取I/O值进行判断示意
Read I/O value to detect object

物体信息 Object information	Results
	1
	0

通用接口I/O复用功能说明请参见《Dobot Magician 接口说明》。
For details about peripheral interface, please see *Dobot Magician Interface Description*.