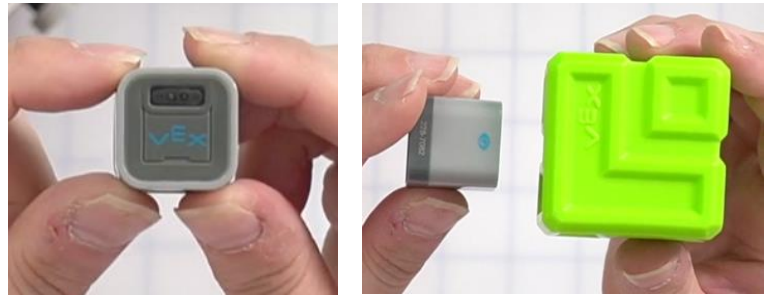


VEX IQ Optical Sensor on Byte

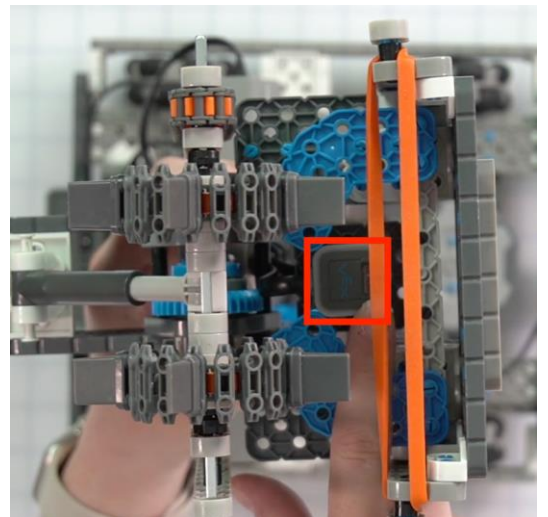
In this Lesson: You will learn about the Optical Sensor on Byte so that you can see how it can be used in a project for the Full Volume game.

Notes:

- The Optical Sensor can detect the presence of an object directly in front of it, as well as the color of that object.
 - The Optical Sensor has an eye icon on the top.



- **The Optical Sensor is located in the back of the intake, in front of the Bumper Switch on Byte.**
 - This image from the video shows the Optical Sensor in a top down view of the intake.
 - The Optical Sensor and the Bumper Switch are connected, so when a Block presses on the Bumper Switch, it is directly in front of the Optical Sensor.



- This location means that the Optical Sensor on Byte can be used to detect the color of a Block that is in the intake.
 - Since scoring in Full Volume can be affected by the color of the Blocks in a Goal, you can use the data from the Optical Sensor to code your robot to make a decision about how to score the Block based on its color.