

Magnet sensor and magnet bit datasheet



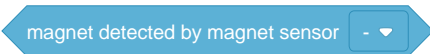
The magnet sensor bit is an input bit that detects the close presence of a magnet. The magnet bit holds a small magnet that can be detected by the magnet sensor bit.

When the magnet sensor bit detects the close presence of a magnet its red LED lights up.

Use in ports	Stencil guide	Bit type	Block category
0 - 7	(A)	Input	Sensing

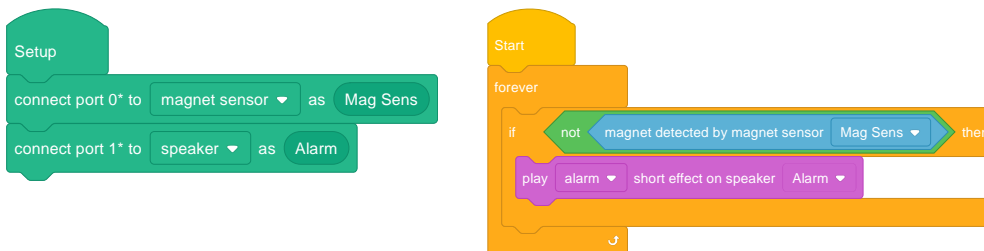
Programming blocks

The programming block for the magnet sensor bit is a sensing block.



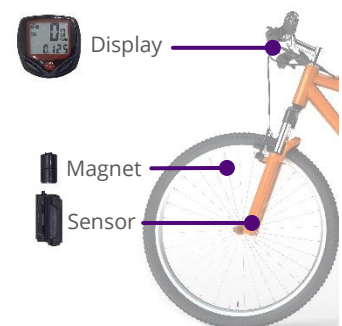
Example program

This example program will check if the magnet sensor cannot detect a magnet. When it cannot sense the magnet the alarm sound is played on the speaker bit.



In the real world

Magnet sensors are used in real world inventions such as detecting for open doors and windows. The magnet sensor is attached to the frame and the magnet is attached to the door or window. When closed the magnet is detected. When open the magnet is not detected. Another use for magnet sensors is to detect rotations. This is how a bike speedometer works. The magnet sensor is attached to the front forks and the magnet is attached to the wheel. Each time the wheel makes a full rotation the magnet passes by the sensor and a full rotation is recorded.



⚠ WARNING! Not suitable for children under 8 years. This product contains a small magnet. Swallowed magnets can stick together across intestines causing serious infections and death. Seek immediate medical attention if magnet is swallowed or inhaled.

⚠ MISE EN GARDE! Cette trousse ne convient pas à un enfant de moins de 8 ans. Elle contient de petits aimants. Les aimants qui sont avalés peuvent s'attirer mutuellement à travers l'intestin et engendrer ainsi de graves blessures. Consultez immédiatement un médecin si un enfant semble avoir avalé un aimant.