



# MAGsense: Magnetic Sensor Data Sheet

**DESCRIPTION:**

The 3DBU MAGsense is a compact, low-power magnetic sensor that outputs a digital signal to indicate magnetic field presence: high for detection and low for no field. Its intuitive design makes it ideal for robotics applications like FRC, FTC, and DIY projects. Featuring four Texas Instruments DRV5032 omnipolar Hall-effect sensors, it delivers reliable and accurate performance in a space-efficient form factor.

**TECHNICAL SPECIFICATIONS:**

The MAGsense sensor utilizes two digital pins; however, only one pin is required for the sensor's operation. Both pins function as mirrors of each other, a design choice made to facilitate connections for the REV control hub.

**EXTRAS:**

MAGsense is legal for use in FIRST Robotics Competition and FIRST Tech Challenge competitions.

Operational Voltage	-3.3V
Operational Temperature	-40°C - 85°C
Communication Type	Digital
Sensor Dimensions	20mm x 20mm x 6.6mm
Dimensions With Case	25.4mm x 25.4mm x 12.7mm
Connection Type	JST ph4
Mounting Holes	M2 (sensor), M4 (case)
Model Number	3DBUSMAG24G1

