MDT Introduces TMR1228D Always-On High-Sensitivity Dual-Axis Magnetic Switch IC with MicroAmp-Level Power Consumption

Descrizione

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â?? Continuous Magnetic Field Detection, Â±5 Gauss High Sensitivity, andQuadrature A/B Outputs for Smart Utility Metering, Rotary and Linear PositionSensing, and Motion Control

ZHANGJIAGANG, China, July 13, 2026 /PRNewswire/ â?? MultiDimension Technology Co., Ltd. (MDT), a leading supplier of magnetic sensors and a pioneer in Tunneling Magnetoresistance (TMR) technology, today introduced the TMR1228D dual-axis bipolar latch magnetic switch IC. Combining always-on magnetic field detection, Â±5 Gauss high sensitivity, microamp-level power consumption, dual-axis sensing, and high-frequency response, the TMR1228D is designed for smart utility metering, industrial position sensing, speed detection, and motion control applications.

The TMR1228D integrates high-sensitivity TMR sensing elements with CMOS signal-conditioning circuitry to convert changing magnetic fields into accurate digital output signals. Unlike conventional Hall-effect switches that rely on duty-cycled operation to reduce power consumption, the TMR1228D leverages TMRâ??s inherent low-power characteristics to achieve continuous magnetic field detection while consuming as little as 1.5Î¼A per axis. This eliminates missed detection events caused by intermittent sampling, delivering faster response and higher reliability for always-on sensing applications.

The TMR1228D incorporates independent X- and Y-axis sensing channels with separate outputs, supporting industry-standard quadrature A/B signals for rotary and linear position, speed, and direction detection. This simplifies the design of motion sensing systems while providing greater flexibility for multi-axis magnetic detection.

With Â±5 Gauss operating and release points, the TMR1228D enables the use of smaller magnets, wider air-gaps, and greater mechanical design flexibility. For applications requiring stronger magnetic

fields or different magnet configurations, MDT also offers the TMR1222D, featuring Â±17 Gauss operating thresholds in the same package and pinout to support a broader range of mechanical structures and magnetic circuit designs.

The TMR1228D is ideal for electronic water, gas, and heat meters, quadrature encoder systems, rotary and linear position and speed sensing, and other battery-powered or always-on sensing applications.

Key Features

About MDTMultiDimension Technology was founded in 2010 in Zhangjiagang, Jiangsu Province, China, with branch offices in Shenzhen, Chengdu, and Ningbo in China, Singapore, Tokyo, Japan, and San Jose, Calif., USA. MDT has developed a unique intellectual property portfolio, and its self-owned state-of-the-art TMR manufacturing facilities that can support volume production of high-performance, low-cost TMR magnetic sensors to satisfy the most demanding application needs. Led by its core management team of elite experts and veterans in magnetic sensor technology and engineering services, MDT is committed to creating added value for its customers and ensuring their success. For more information about MDT please visit http://www.multidimensiontech.com.

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