AK7455

NEW

Products > Rotation Angle Sensors > AK7455

High accuracy rotation angle sensor that supports Shaft-End and Off-Axis configuration

Description

up to 25,000 rpm using proprietary technology. A simple configuration of the AK7455 and a small magnet is used to sense the angle of rotation in a non-contact manner. The AK7455 is available in a

The AK7455 is a 14-bit angular rotation sensor that detects magnetic fields parallel or perpendicular to the surface of the IC and tracks high speeds

power supply voltage range of 3.0V to 5.5V and a small package (QFN 24-pin).

Anomaly magnetic field detection

Key Features

of system anomalies and malfunctions.

of the motor acceleration and deceleration.

per revolution to the AK7455's built-in EEPROM.

 Increased placement flexibility in Off-Axis configurations In addition to the conventional magnetic field detection in the X-Y plane, the magnetic field detection in the X-Z and Y-Z planes is now possible

A function to detect magnetic fields other than the sensor magnet as an anomaly magnetic field has been added, contributing to the detection

- in the Off-Axis configuration, increasing the flexibility of sensor placement in motor systems. Improved response to acceleration and deceleration The bandwidth setting of the angle calculation circuit has been extended compared to that of the conventional product to improve the response
- Angular error calibration function

The AK7455 provides highly accurate angle detection by writing calibration parameters obtained from a minimum of 16 measurement points

Applications

AK7455

High accuracy angle sensor for Shaft-

Regulator

End and Off-Axis configuration

Various motor controls, machine tools, electric actuators, industrial sewing machines

Part Number **Description Digest**

Specifications

VDD

Pb Free Halogen Free

Part Status

Product Information

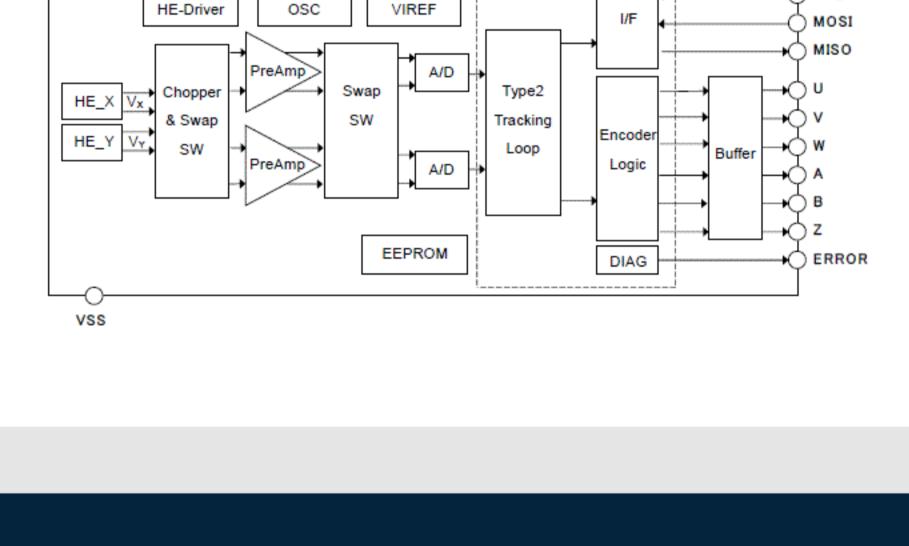
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Data sheet

AK7455 Datasheet

English [200800064-E-00]

(68 Pages PDF: 1.91MB)

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Applications

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#02 Encoder types and mechanism High accuracy magnetic How to use rotation encoder angle sensors - For #03 Incremental type industrial sewing and absolute type machine application -Simple Calibration for angle accuracy of 0.1° #04 Principle and advantages of optical Design Support encoder Off-Axis configuration enhances the design Absolute angle flexibility #05 Principle and detection with highadvantages of magnetic accuracy by easy encoder Simplifying inventory assembly control and downsizing of the system #06 Angular error of Glossary of Angle magnetic encoder Detection Absolute angle

excellent environmental

tolerance

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