

HEIDENHAIN HEIDENHAIN AK ERM 2280 2800 03S12-03

Incremental Angle Encoder – Scanning Head

New ID (MPN): 1144028-03 | **Old ID:** 671706-03

Brand: HEIDENHAIN

Overview

The AK ERM 2280 2800 03S12-03 is a modular scanning head engineered for use with ERM 2280 magnetic rings. It delivers high-quality ~1 Vpp sin/cos incremental signals with distance-coded reference marks, designed for robust operation on machine tools such as lathe C-axes, rotary/tilt tables, and high-speed spindles.

Key Features

- Magnetoresistive scanning of a magnetic measuring standard (ERM 2280 ring).
- Incremental ~1 Vpp sin/cos interface with distance-coded reference marks.
- Robust against contamination and suitable for shop-floor environments.
- Compact scanning head for simple mechanical alignment.
- Compatible with ERM 2280 series rings (2800-line variant).

Compatibility & Interface

Component	Designation / Notes
Scanning Head	AK ERM 2280 2800 03S12-03
Compatible Ring	ERM 2280, 2800-line variant (scale drum/ring)
Signal Interface	~1 Vpp sin/cos (A, ■, B, B■, R, R■)
Reference	Distance-coded reference marks
Supply	5 V DC (typical for this interface)
Connector	M23 12-pin (typical for AK ERM family)

Typical Applications

- C-axis feedback on lathes
- Rotary/tilt tables and indexing heads
- Spindle positioning on machining centers
- Environments where coolant/oil and chips are present

Procurement & Support

EncoderMarket can supply original HEIDENHAIN HEIDENHAIN AK ERM 2280 2800 03S12-03 (MPN 1144028-03) with competitive pricing and optimised lead times. For quotations, cross-reference help (old ID 671706-03), and logistics support, contact info@encodermarket.com or visit <https://www.encodermarket.com>.

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