Heidenhain ID: 810801-04
Rotary Encoder
Type: ECN 125 2048 5XS08C4

Heidenhain 810801-04 ECN 125 2048 5XS08C4 – Absolute Rotary Encoder Technical Datasheet

The **Heidenhain ECN 125 2048 5XS08C4 (ID: 810801-04)** is a premium-quality **absolute rotary encoder** manufactured in Germany. This encoder is designed for high-precision motion control systems, providing accurate feedback for CNC machines, robotics, and automation. It uses **optical scanning** and the **EnDat 2.2 interface** for reliable, noise-resistant digital signal transmission.

Brand	Heidenhain
Model	ECN 125 2048 5XS08C4
ID Number	810801-04
Encoder Type	Absolute Rotary Encoder
Resolution	2048 pulses per revolution (PPR)
Output Interface	EnDat 2.2 (Digital Serial Transmission)
Measuring Principle	Optical Scanning (Singleturn)
Shaft Type	Solid Shaft
Shaft Diameter	8 mm
Mounting Type	Servo / Clamping Flange
Power Supply	5 V DC ±5%
Signal Output	Differential Line Signal
Protection Class	IP64 (Standard) / IP67 (Optional)

Operating Temperature	-20°C to +85°C
Housing Material	Aluminum Alloy
Country of Origin	Germany

Key Features

• **High Precision 2048 PPR Resolution** ensures exact angular position detection.
• **Absolute Position Feedback** removes the need for homing or reference movement.
• **EnDat 2.2 Digital Interface** provides reliable high-speed communication.
• **Durable and Compact Design** ideal for industrial environments.
• **Non-Contact Optical Scanning** guarantees maintenance-free performance.
• **German Engineering** for consistent accuracy and reliability.

Applications

• CNC Machines and Servo Drives
• Robotics and Industrial Automation
• Packaging and Printing Machines
• Semiconductor Manufacturing
• Motion Control and Positioning Systems

For inquiries, datasheets, and quotations:
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