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Operating Instructions
(Authorized Documentation)

ECN 113, ECN 125
ERN 120, ERN 130, ERN 180
42x/30A; 16D/30A; 29D/30A

English (en)
04/2025

Find freely available documents for your product at:
www.heidenhain.com/documentation



EN	DE	FR	IT	ES	SV	NL	DA	FI	CS	BG
ET	EL	HU	JA	KO	LV	TR	NO	PL	PT	RU
			SL	RO	SK	LT	HR	zh-CN	zh-TW	

This document is provided in multiple languages:

1460356

Search

1 Fundamentals
1.1 About these instructions

These Instructions contain all the information and safety precautions needed for the proper operation of the product according to its intended use.

Further information is available in specific documents, depending on the life-cycle phase of the product and on the target group for the activity.

Further information: "Information based on the document type, the life-cycle phase of the product, and the target group", Page 2

1.2 Notes on reading this document

WARNING

Fatal accidents, personal injury or property damage caused by non-compliance with the documentation!

Failure to comply with the documentation may result in fatal accidents, personal injury or property damage.

- Read the documentation carefully from beginning to end
- Keep the documentation for future reference

2 Safety
2.1 Intended use

The products of this/these series are encoders for position measurement.

The products are intended for use in research facilities, commercial applications, and in an industrial environment.

The products must be used only in accordance with the information based on the life-cycle phase of the product and on the target group.

Further information: "Information based on the document type, the life-cycle phase of the product, and the target group", Page 2

2.2 Improper use

Any use not specified in "Intended use" is considered improper use. The company operating the device is solely liable for any damage resulting from improper use.

2.3 Obligations of the operating company

The company operating the product must provide the personnel with the most current version of all documentation on the product.

2.4 General safety precautions

Mounting and initial configuration must be conducted by a qualified specialist in compliance with local safety regulations.

Encoders and encoder accessories may only be repaired by trained HEIDENHAIN technicians.

WARNING

Fatal accidents, personal injury, or property damage when engaging or disengaging live connecting elements!

Engaging or disengaging connecting elements while the system is under power may result in fatal accidents, personal injury, or property damage.

- Do not engage or disengage any connecting elements while the product is under power.

Encoders and encoder accessories that have contributed to the failure of a safety function in the application must be returned to HEIDENHAIN Traunreut.

3 Information based on the document type, the life-cycle phase of the product, and the target group



The following documents must be read and observed by the stated target groups before mounting, initial configuration, or disposal of the encoder.



Freely available documents are available at www.heidenhain.com/documentation.

Further documents are available upon [request](#).

Installation technician, Designer, Control manufacturer

Document	Document ID	Life-cycle phase of the product/Contents			
Operating Instructions Operating Instructions ECN 113, ECN 125 ERN 120, ERN 130, ERN 180 42x/30A; 16D/30A; 29D/30A	1460356	■ Operation of the unit	✓	✓	✓
Mating Dimensions	Website Search for product ID	■ Dimensions	✓	✓	
Mounting Instructions Mounting Instructions ECN 113/125; ERN 120/130/180 42x/30A, 16D/30A, 29D/30A	1459436	■ Mounting the product	✓	✓	
Brochure Interfaces of HEIDENHAIN Encoders	1078628	■ Interfaces and measuring methods ■ Electrical connection ■ Interface electronics		✓	✓
Brochure Rotary Encoders	349529	■ Technical features, operating conditions, and mounting information ■ Specifications, dimension drawing ■ Electrical connection ■ Accessory		✓	✓
Brochure Cables and Connectors	1206103	■ Cables and connectors for signal transmission between the position measuring system and the subsequent electronics	✓	✓	✓
Specification Pin layout	Website Search for product ID	■ Connection points on connecting elements, cables, or terminal blocks	✓	✓	✓
Specification CAD	Website Search for product ID	■ Views ■ Dimensions	✓	✓	
Declaration of Conformity	Website Search for product ID	■ Conformity with applicable directives		✓	✓

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