



The best encoders are those you never have to think about. Those that simply do their job – year after year. Leine & Linde develops and manufactures customised encoder solutions for demanding environments, advanced measuring systems for accurate feedback of speed and position.

INTERFACES

FUNCTIONALITY TO SUIT YOUR APPLICATIONS

Connectivity matters – interfaces for all industries



Leine & Linde provides a variety of different incremental outputs, absolute interfaces and systems for diagnostics – all to fulfil the industrial automation needs for feedback and control.

Interface overview

Type	Incremental						Absolute				Gateway
Encoder series	2000	1000	800	700	500	300	1000	900	600	500	CRG
Hollow shaft	✓		✓	✓	✓			✓	✓	✓	
Solid shaft		✓	✓		✓	✓	✓	✓	✓	✓	
HTL	✓	✓ x	✓ x	✓	✓ x	✓	x	x	x *		
HCHTL	✓	✓ x	✓ x	✓	✓ x		x	x			
TTL		✓ x	✓ x	✓	✓ x	✓	x	x			
1 Vpp			✓	✓					x **		
RS422	✓	✓ x	✓ x	✓	✓ x		x	x	x *		
SSI		x			x		✓ x	✓	✓	✓	
EnDat™		x			x		✓	✓	✓		
BiLL™		x			x		✓			✓	
Analogue		x			x		✓			✓	
Parallel		x			x		✓			✓	
PROFIBUS DP®		x			x		✓	✓	✓		✓
PROFINET IRT®		x			x		✓	✓	✓		✓
EtherNet/IP™		x			x		✓	✓	✓		✓
EtherCAT®					x			✓	✓		
CANopen®		x			x				✓	✓	✓
DeviceNet™		x			x				✓		✓
DRIVE-CLiQ™					x			✓	✓		
Overspeed monitor		x	x								✓
Options:											
Dual output	✓	✓	✓		✓		✓	✓	✓		
ADS Online™			✓								
ADS Classic™			✓								

✓ = Primary output

x = Available as a secondary output

* = Available with SSI as primary output

** = Available with EnDat or SSI as primary output

Other combinations can be available on request.

Short description

HTL

Incremental output signal with voltage level 9-30 Vdc and encoder supply voltage 9-30 Vdc.

HCHTL

Incremental output signal with voltage level 9-30 Vdc and encoder supply voltage 9-30 Vdc for long cables.

TTL

Incremental output signal with voltage level 5 Vdc and encoder supply voltage 5 Vdc.

1 Vpp

Sinusoidal incremental signal with amplitude of typically 1 V peak-to-peak.

RS422

Incremental output signal with voltage level 5 Vdc and encoder supply voltage 9-30 Vdc.

SSI

Absolute synchronous serial interface for point-to-point communication.

EnDat™

Absolute serial bi-directional interface for both reading and writing values from the encoder.

BiLL™

Absolute bi-directional master/slave interface developed by Leine & Linde.

Analogue

Absolute interface represented by an output current between 0-20 mA or 4-20 mA.

Parallel

Absolute output that provides real-time absolute position values.

PROFIBUS DP®

A standard for fieldbus communication in automation technology.

PROFINET IRT®

A standard for Industrial Ethernet communication based on PROFIBUS.

EtherNet/IP™

Fieldbus communication based on Ethernet standard combined with Common Industrial Protocol (CIP).

EtherCAT®

An open real-time Ethernet network originally developed by Beckhoff.

CANopen®

A CAN-based communication system.

DeviceNet™

A multi-drop network that connects and serves as a communication network between industrial controllers and I/O devices.

DRIVE-CLiQ™

Ethernet based interface from Siemens for connection of different kinds of components, like motors, frequency converters and encoders.

Overspeed monitor

Unit with programmable relays for overspeed, underspeed, standstill and direction monitoring.

ADS Online™

Ethernet-based diagnostic system that continuously monitors the encoder functions and ambient environmental parameters.

ADS Classic™

Advanced diagnostic system that continuously monitors the encoder functions.