



Encoder Systems



Barlow Technology supplies a range of robust encoders and drive control systems from Johannes Hübner Giessen, a world leader in the manufacture of state-of-the-art engineering solutions for heavy industry, including SIL certified and explosion-proof products for applications within Paper Mills, Mining, Ports and Harbours, the Steel and Offshore Industries.



Incremental Encoders

The advanced development and manufacture of high performance, reliable, safe and flexible products, include a range of analogue tachos and incremental encoders for speed control, for multiple applications within the steel, mining and ports industries.

Speed sensing

- HTL, TTL, SinCos, 4 – 20 mA
- Solid shaft constructions for flange or foot attachment
- Hollow shaft constructions up to Ø 150 mm

Options

- Second shaft end
- Two systems (redundant)
- Integrated FOC transmitter
- Electronic overspeed switch



Universal Encoder Systems

Two highly efficient systems (U-ONE and U-ONE (Safety) with integrated control functions in a modular structure, bring a new level of efficiency and performance to customised system solutions, in extreme operating conditions. For multiple applications within rolling mills, steel works, mining and crane systems.

Multifunctional encoder system

- Safe speed switches
- Safe position switches
- Safe error switches
- Safe bus interfaces
- Simple configuration

Options

- SIL 2 and PL d certified
- FOC or Compact constructions
- Incremental output
- Current output 4 – 20 mA



Absolute Encoders

Designed for use in extreme operating conditions, we offer a range of robust, vibration resistant, highly dynamic absolute encoders for multiple applications including within rolling mills, shipbuilding and the paper industry.

Position detection

- Interfaces: PROFIBUS, PROFINET, DeviceNet, Ethernet / IP, EtherCAT, SSI, parallel, 4 – 20 mA
- Solid shaft constructions for flange or foot attachment
- Hollow shaft constructions up to Ø 50 mm

Options

- SIL 3 and PL e certified
- Single or multiturn
- Second shaft end
- Two systems (redundant)
- Incremental output



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Speed and Position Switches

Overspeed, standstill and slip monitoring

- Switching voltage up to 230 V
- Solid shaft or hollow shaft constructions
- Simple configuration
- Integrated diagnostics

Options

- SIL 2 and PL d certified
- Second shaft end
- Incremental output
- Two systems (redundant)



Electronic Components and Accessories

Accessories electronics / Component assemblies

- Fibre-optic technology (FOC)
 - FOC transmitter
 - FOC decoder
- Signal conditioning HTL / TTL
 - Output multipliers
 - Pulse converters
 - Frequency-voltage converters
- Diagnostics accessories
 - Encoder Diagnostic unit

Accessory parts / Components

- Torsion resistant couplings
- Screw-in type adapter shafts
- Flange adapter shafts
- Torque brackets
- Accessory parts for installation with integrated fault exclusion (PL e)



Magnetic Encoders

Speed and / or position detection

- Wear-free thanks to bearing free construction
- Tailor-made and customized system solutions
- Hollow shaft constructions up to Ø 1500 mm
- Incremental (MAG) or absolute (MAGA)

Options

- Pulse wheel, split or one-piece
- Terminal strip, cable or plug
- Two systems (redundant)
- Integrated FOC transmitter (MAG)
- Bus interfaces (MAGA)