



BARLOW
TECHNOLOGY

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.

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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

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 \varnothing 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)