

BEARINGLESS MODEL 2850

Incremental encoders with virtually unlimited service life



THE BEARINGLESS ENCODER MRI 2850 supplies precision velocity feedback with a virtually unlimited service life. This encoder is built to enhance motor performance in the true heavy-duty operations in the toughest of environments, like pulp & paper, metal, oil & gas, wind, and marine industries.

Avoid downtime by using the MRI 2850 encoder from Leine & Linde for high-horsepower electric motors. Mounted directly on the main shaft of the standard 8,5" C-Face motors, the encoder provides resolutions of 1–16383 ppr.

Compact, rugged, compatible

With the base in the well-proven technology of Leine & Linde's Bearingless 2000 series, the robust electronics of this model include advanced sensing technology to assure stable speed

measurement without ripple of ghost pulses. Two LEDs on the sensor head confirm power and scanning quality for easy control. The sturdy enclosure in lightweight, anodized aluminium covers all parts of the encoder. Without ball bearings or other contact surfaces, it is immune to mechanical wear. Several robust connections and electronic options are available, to fit the needs of the customer.

Easy to fit – or retrofit

The encoder fits directly on 1"–4" shafts (or 25 mm – 100 mm) without the need for a stub shaft. There is a fixed distance between the pulse wheel and the sensor head, which also means easy mounting. Mount the encoder with one or two sensor heads to get one or two output signals from the application, depending of the needs of the application.

RS422

HTL

High-Current HTL (HCHTL)

LEINE & LINDE

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Technical data

Power supply	9-30 Vdc
Output signal	RS422 / HTL / HCHTL
Connection type	M23 connector 12-pin / cable / Industrial latching connector 10-pin
Operating temperature	-40 °C...+80 °C
Ingress protection class [IEC 60529]	IP67
Vibration [IEC 60068-2-6]	< 200 m/s ²
Shock [IEC 60068227]	< 1500 m/s ²
Scanning tolerance, axial / radial	± 4 mm/± 1.5 mm
Polarity protected	Yes
Short circuit protected	Yes
Cable length max	350 m at 100 kHz (HCHTL)

Code key



Model

850 = 8,5" C-Face mount

Functionality

0 = Standard

Connection

- 1 = Industrial latching connector
- 2 = M23 connector
- 3 = Cable, free length

Electronics A

- 5 = HC-HTL (9-30 Vdc supply, 9-30 Vdc output)
- 6 = HTL (9-30 Vdc supply, 9-30 Vdc output)
- 7 = RS422 (9-30 Vdc supply, 5 Vdc output)

Electronics B

- 0 = None
- 5 = HC-HTL (9-30 Vdc supply, 9-30 Vdc output)
- 6 = HTL (9-30 Vdc supply, 9-30 Vdc output)
- 7 = RS422 (9-30 Vdc supply, 5 Vdc output)

Resolution B

1-16383 ppr*

Resolution A

1-16383 ppr*

*Max 100 kHz pulse frequency

Shaft size

XX-XX = 1" - 4" or
25 mm - 95 mm**

**Shaft dimension defined in order