

EtherCAT[®] encoders

supports 31.25µs cycle time

EtherCAT[®]
Conformance tested



EtherCAT[®] – Ethernet for controlled automation technology

Thanks to no underlying subsystems EtherCAT has a fast industrial Ethernet technology. This is achieved by sending all data within the whole network and where the slaves only reads out the data addressed to them while the frame passes through. Furthermore EtherCAT is not only fast, it is flexible as well. It enables variants of the system structure such as line, tree, star or any other topology combination.

To continue on being flexible, EtherCAT has a simple configuration. In traditional fieldbus devices, the user has to set the address for each device on the bus. With Ethernet-based solutions, this is handled by the system. The user only connects the device and configures it via the accompanying ESI file.

Leine & Linde's encoders with an EtherCAT interface have powerful electronics and, in addition to the position value, can deliver speed and acceleration values with great position and speed. This enables direct feedback for fast control systems via EtherCAT. The encoder interface supports CANopen over EtherCAT according to CiA 301 and the device profile range CiA 406.



EtherCAT interface is available in both 600 series and 900 series inductive pulse encoders to cover all heavy duty segments where the encoder series are used on a daily basis. Solid shaft and hollow shaft variants are available.

The 600 series absolute inductive encoder is one of the most robust Ø58 mm encoder in the market and has a total up to 31 bit resolution, with 12 bit multiturn and either 13 bit or 19 bit singleturn resolution.

With the 900 series, Leine & Linde offers an absolute Ø100 mm heavy duty inductive encoder for the most demanding environments, where strong shocks and vibrations are subjected to the encoder. The 900 series encoder enables a total of 35 bit resolution, 19 bit singleturn and 16 bit multiturn.

Leine & Linde knows the requirements within the industries, how automation systems now are required to send more data than earlier to control more complex movement, still in real-time. Leine & Linde is the encoder manufacturer who supports with the right products, at the right time.

EtherCAT[®] is registered trademark and patented technology, licensed by Beckhoff Automation GmbH.

LEINE & LINDE

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Models – 900 series

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Shaft

H = Hollow shaft
S = Solid shaft

Model

903 = Standard
901 = Extra robust (ceramic bearings)

Shaft size

2 = Hollow shaft 12 mm
6 = Hollow shaft 16 mm
7 = Hollow shaft 17 mm taper (only model 901)
0 = Hollow shaft 20 mm with keyway (only model 901)
1 = Solid shaft 11 mm with key nut
4 = Solid shaft 14 mm with key nut

Flange

0 = No torque bracket (hollow shaft)
2 = Torque bracket 120° (hollow shaft)
3 = Torque bracket 330° (hollow shaft)
8 = Euro-flange B10 (solid shaft)

Output

515 = EtherCAT
525 = EtherCAT

Resolution

19 bit
19 + 16 bit

Connection type

3 x M12 connector
3 x M12 connector

Models – 600 series

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Shaft

H = Hollow shaft
S = Solid shaft

Material

0 = Anodized aluminium

Resolution

73 = Singleturn 13 bit
79 = Singleturn 19 bit
85 = Multiturn 25 bit (13 + 12 bit)
81 = Multiturn 31 bit (19 + 12 bit)

Shaft size

0 = Solid shaft Ø6 mm round
1 = Solid shaft Ø6 mm with face
2 = Solid shaft Ø10 mm round
3 = Solid shaft Ø10 mm with face
6 = Solid shaft Ø12 mm with keyway acc. Ti DIN 6885
4 = Blind hollow shaft Ø12 mm

Flange

6 = Solid shaft with synchro flange
7 = Solid shaft with clamping flange
8 = Hollow shaft

Electronics and connection

26 = EtherCAT
3 x M12 connector

For more information, please contact your nearest Leine & Linde office.