

DRIVE-CLiQ ENCODERS

for heavy duty environments



DRIVE-CLiQ

DRIVE-CLiQ is a registered trademark of Siemens.

DRIVE-CLiQ is Siemens' new communication protocol for motor feedback in a SINAMICS drive system. It is an Ethernet based interface for connection of different kinds of components, like motors, frequency converters and encoders.

Leine & Linde is the first producer to implement the DRIVE-CLiQ interface on a heavy duty encoder platform. This will enable DRIVE-CLiQ communication also with encoders that are designed for long life operation in harsh environments where they are exposed to powerful vibrations, shocks and mechanical loads.

The DRIVE-CLiQ encoder is designed for transfer of both position and speed data over the same protocol. The scanning generates absolute position data, which means that each step of the turn is represented by a unique code – both singleturn for the exact position of the shaft, and multiturn for the number of full revolutions.

But the protocol is also intended for transmission of real-time speed data. Thanks to a high encoder resolution (19 bit singleturn) and very fast cycle time (31,25 µs)

the digital speed value given by the encoder can be used for accurate speed control in a closed loop.

One of the key features with DRIVE-CLiQ is that it simplifies the commissioning and configuration when setting up components in a system. Each unit has an electronic label with basic data like part number and technical specification. This way the encoder is recognized by the system when installed and automatically set up according to its exact configuration.

Another characteristic with a DRIVE-CLiQ system is that the cabling onsite is reduced. Up to five units may be connected to a hub for transfer of data over a common cable. This saves both cost and installation time.

Leine & Linde now launches DRIVE-CLiQ on a platform that is compatible with the standard mechanical interface for large drives. This means the new DRIVE-CLiQ encoder can easily be installed to the motor mechanics typically found in heavy duty applications like paper mills, steel plants and cranes, without any adaptation needed. All in order to keep the commissioning simple!

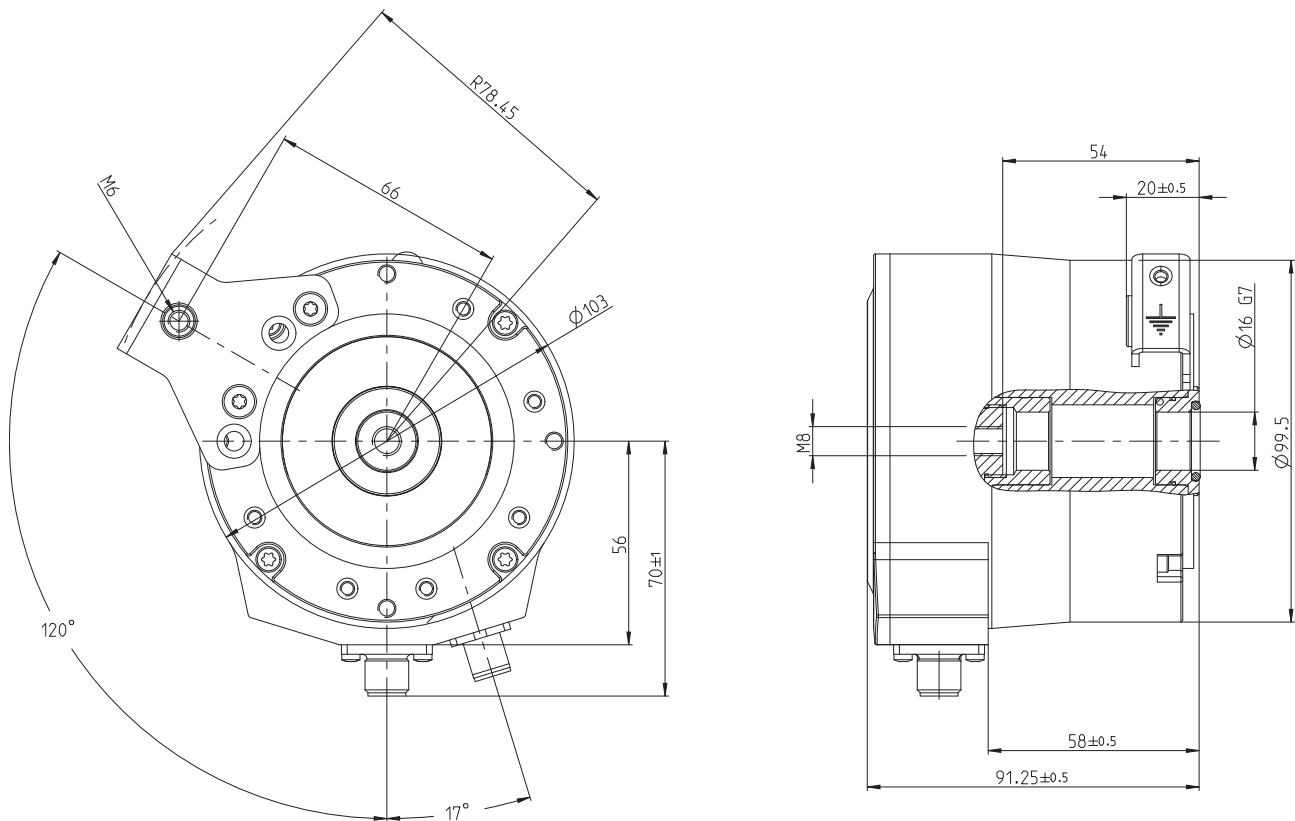
LEINE & LINDE

Leine & Linde AB T +46-(0)152-265 00 F +46-(0)152-265 05 info@leinelinde.com www.leinelinde.com

Encoder functionality

- Speed
- Singleturn position, 19 bit
- Multiturn position, 15 bit
- Commutation angle
- Encoder temperature
- Motor temperature (optional)
- Encoder diagnostics

Dimensions



Ordering information

Part number	Encoder configuration
1034561-01	Hollow shaft 16 mm, torque bracket 120°, resolution 19+15 bit, supply 9-36 Vdc, output DRIVE-CLiQ, connection 2×M12 (with input for external temperature sensor)