

## ND31/ND32 servo converter

---

### Characteristics

---

#### Position measuring systems

- Connection of resolver or Hall sensor for commutation.
- Encoder input for connecting digital encoders or sine encoders with an interpolation of up to 1024 increments per period or frequency/step setting (stepper motor emulation); can be used as source for actual values and setpoints.
- Combined evaluation of resolver and encoder.

#### Bus systems

- Control and configuration over serial interface using NOVOBUS protocol.
- Control and configuration over CAN Bus interface using NOVOBUS protocol. Setpoint setting over service channel or process data channel; configuration of read/write process data telegrams can be determined freely.
- Fine interpolation of setpoints.
- CAN Open on demand.

#### Other interfaces

- 1 x 14-bit analog input.
- 1 x 8-bit analog input.
- 2 x 8-bit analog outputs.
- Encoder emulation in case of resolver as feedback system with up to 1024 pulses per revolution.

#### Controllers

- Position, speed and torque controllers.
- Cycle time position/speed control: 512  $\mu$ s.
- Cycle time current control: 104  $\mu$ s / 208  $\mu$ s.

#### Setpoints

Free choice of source for setpoint setting:

- Analog input.
  - Encoder input (e.g. for coupling axes).
  - Step/direction setting.
  - Integrated positioning control.
  - Trajectory table with override.
  - Cam disk function.
-