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TKE

CANopen® Valvedriver CDVD-10

CDVD-10 valve driver is a new approach to integrate existing hydraulic valves with CANopen®-network. This unit gives a very cost efficient CANopen® interface individually for each coil. Thanks to it's design it can be mounted to most valves on the market.

- DIN connector for coil
- RPDO timeout monitoring with automatic shutdown on error
- Supply voltage 7...36 VDC
- Continuous coil current monitoring in all operating modes
- Closed loop current control
- Dither
- Dead band compensation
- ±4kV contact discharge and
- ±8kV HMB air discharge for power supply and CAN
- Supply Current max. 175mA typ. 75mA
- Output current max. 2 A (possibility to get up to 4 A in on/off mode)
- Operating temperature -40°C...+85°C
- Environmental protection IP65+
- CAN baud rate 125k/250k/500k/800k/1M
- CAN voltage tolerance up to ±36VDC

Operational modes

The CDVD-10 valve driver has got three different operational modes:
- On-off
- Positive direction closed-loop PWM
- Negative direction closed-loop PWM

Current monitoring is active in all operating modes.

CANopen® interface

The physical CAN interface in the CDVD-10 valve driver is according to ISO11898-2 High-speed CAN physical layer.
Cost-optimised CANopen® interface is according to the following standards:
- CiA® DSP 301 version 4.1.1
- CiA® DR 303-1 version 1.4
- CiA® WD 401 version 2.1.9

Connectors

CDVD-10 valve driver has got open end cables, alternatively Bosch Compact style connectors for power supply and CAN.
Valve coil connector is DIN 43650-A/ISO 4400.

Some features of CDVD-10 valve driver

Power from the CAN-bus
Compact dimensions 77 x 37 x 28 mm
Meets CiA301, CiA 303-1 and CiA 401
RPDO timeout monitoring
Automatic output shutdown on RPDO timeout
Automatic thermal shutdown of the output

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