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TKE

CANopen Valvedriver

CANopen DIN-A 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.

- RPDO timeout monitoring with automatic shutdown on error
- Supply voltage 7...36 VDC
- Continuous coil current monitoring in all operating modes
- ±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 baudrate 125k/250k/500k/800k/1M
- CAN voltage tolerance up to ±36VDC
- Dimensions 35 x 50 x 75mm (WxHxL)
- Durable plastic housing (Cycoloy* C1200 Resin)

Operational modes

The CANopen DIN-A valve has got three different operational modes:
- ON-off
- Positive direction open-loop PWM
- Negative direction open-loop PWM

Current monitoring is active in all operating modes.

CANopen interface

The physical CAN interface in the DIN-A 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

CANopen DIN-A valve has got Bosch Compact type dual connector for power supply and CAN.
Valve coil connector is 2-pole DIN 43650-A/ISO 4400.

Some features of DIN-A valve driver

Power from the CAN-bus
Compact dimensions 35 x 50 x 75 mm
Meets CiA301, CiA 303-1 and CiA 401
RPDO timeout monitoring
Automatic output shutdown on RPDO timeout
Automatic thermal shutdown of the output

Wolffintie 36 F2/III, FI-65200 Vaasa, Finland
tel +358 6 357 6300, fax +358 6 357 6320
info@tke.fi | www.tke.fi

tke