

Data Sheet

# Electrohydraulic Actuator

## PVED-CX4 Series 7

The extensive PVG 32 product line now includes a PVED-CX4 Series 7 digital actuator to ensure entrance into the SIL 2 and CANopen world.

The PVED-CX4 helps OEM to reach a high performance level while facilitating compliance with the safety demands of Machinery Directive 2006/42/EC.

Target applications are cranes, man lifts, telehandlers and special purpose vehicles.

The CANopen protocol is designed for proportional valve controls and can be used in any application.

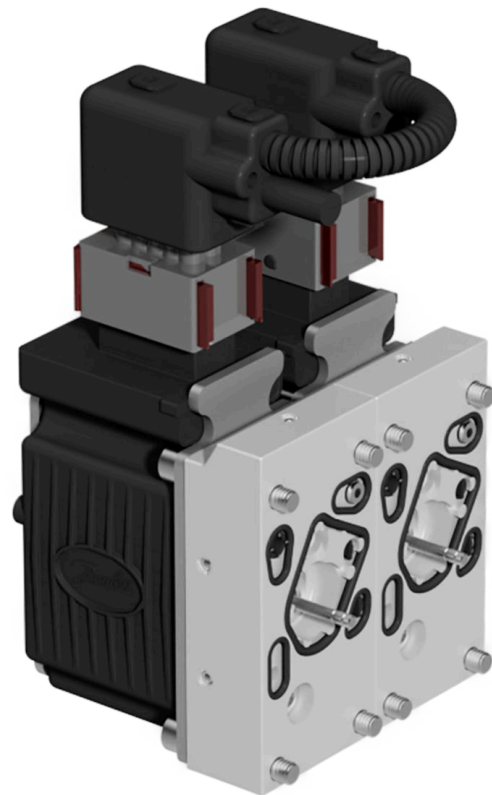
### Features

- SIL 2 certified according to IEC 61508 by TÜV Süd
- CANopen protocol (CiA 3.01 and CiA 4.08)
- ASSIST (Automatic System Safety Integrity Self Test) feature for Autonomous self-verifying safety system
- High precision valve control
- Low energy consumption

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Comprehensive technical literature is online at [www.danfoss.com](http://www.danfoss.com)

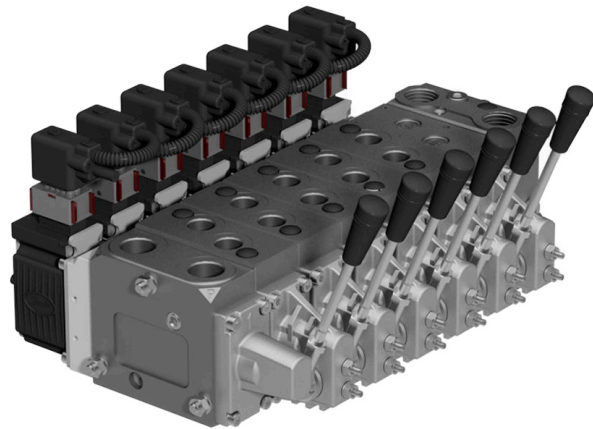
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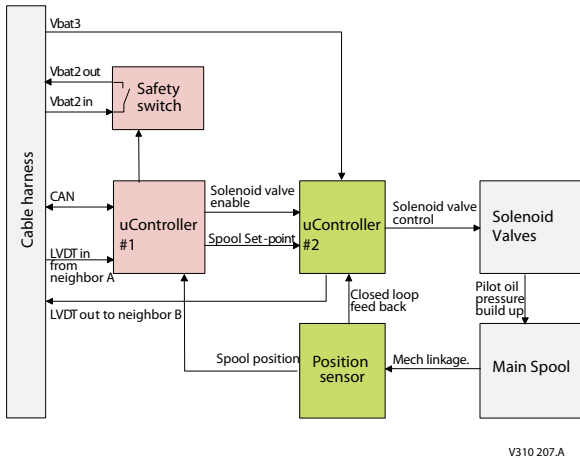
**The PVED-CX4: a cornerstone in the Danfoss Safety Concept**

All our know-how is channeled into the electronic, software, and mechanics of the PVED-CX4. The PVED-CX4 is designed for optimum reliability and safety – the result of an innovative and very thorough development process.

The PVED-CX4 is SIL 2 certified according to IEC 61508 by TÜV Süd.



*Control and safety principles for PVED-CX4*



The safety approach of the PVED-CX4 is based on self- and neighbor-monitoring combined with the ability to shut down all neighbor modules. Spool movement, internal electronics, and software processes are redundantly monitored.

Our complete valve safety concept includes PVG with PVSK.

When using PVED-CX4 in combination with PVG with PVSK, oil flow is controlled locally by the PVSK. Oil flow to the application can be shut down by both PVSK and valve without influencing other functionality on the vehicle.

PVED-CX4 – supporting OEMs to meet the required Performance Level.

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