

# STAR COOPERATION®

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## FlexIO-S Digital

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### BENEFITS

- Stand-alone operation without PC connection
- Consumer switch depending on CAN bus signals
- 8 high side and 8 low side channels configurable as in- or output

### SENDING OF CAN SIGNALS AND SWITCHING OF DIGITAL OUTPUTS

The FlexIO-S Digital gives you the opportunity to convert data on the CAN bus into digital signals for status display or for switching external periphery components.

At the same time, digital inputs can be imported with the FlexIO-S Digital, thereby reproducing signals on the CAN bus and sending them.

In order to do so, the hardware comes with a CAN interface as well as 8 high side and 8 low side channels that can be configured individually both as inputs or outputs.

For the “send” function, different CAN messages are allocated to the digital inputs. Depending on the inputs’ status, these messages are then sent cyclically to the bus. In the “receive” function, the outputs are switched depending on the received CAN signals.

A graphic PC surface is included in the development software kit for configuration. Each digital channel can be parametrized as input or output or deactivated entirely via a drop-down menu. Additionally, the CAN Baud rate can be defined with the help of this menu. The value display can be switched from decimal to hexadecimal.

All adjustments can be transferred to the hardware via USB and stored there permanently. No PC connection is necessary for the actual operation.

NETWORK TECHNOLOGY

ENERGY TECHNOLOGY

SENSOR-/ ACTUATOR TECHNOLOGY

# FlexIO-S Digital

## ORDER NUMBER

- 70006450

## CHARACTERISTICS

- Activation of power outputs via CAN or optional keyboard
- Cyclical sending of CAN messages
- Import of digital inputs
- Status LEDs for all in- and outputs
- Optional warning buzzer for high side output 8
- Development Software Kit available for free configuration of in- or outputs
- USB connector for data transfer with PC
- CAN messages, IDs, cycle time, data length and data content freely editable
- Automotive-suitable voltage input of 6-36 V

## FIELDS OF APPLICATION

- Experiment and test set-ups with CAN bus
- Test benches/individual control tasks
- Signal and measuring value monitoring of special hardware with CAN bus
- Sending of e.g. Kl.15 signal on CAN for HIL board set-ups
- Switching of consumers depending on CAN bus signals

## SCOPE OF DELIVERY

- FlexIO-S Digital hardware (device)
- Development Software Kit for individual configuration
- USB connector cable
- Manual (German)

## ACCESSORIES (OPTIONAL)

- Customer-specific connector cable and software adjustments can be realized on demand.

## TECHNICAL DATA

	FlexIO-S Digital
Voltage supply	6 – 36 V
Operating temperature	-40°C to +85°C
In- and output	8x high side (max. 1A each) 8x low side (max. 1A each)
Interfaces	1x CAN High-Speed (optional: LIN 1.3/2.x)
Status LEDs	1x for each in- and output
Warning buzzer	Optional for high side output 8
Configuration	USB 2.0
Dimensions	90 x 85 x 35 mm

All in- and outputs are short-circuit and reverse-current protected.

Each output can be loaded with a current of up to 1A. However, the maximum total charging rate of all outputs together is 3A.

Two separate CAN messages can be defined, in which one of the two messages is sent cyclically depending on the status of the respective input.

The switch between function 1 (inputs) and function 2 (outputs) of the individual pins can be executed via the USB interface using the Development Software Kit.