

sysWORXX

CANopen
I/O modules

SYS TEC
ELECTRONIC



sysWORXX Automation Series CANopen I/O modules

Intelligent automation

The sysWORXX CANopen I/O devices are outstanding by its flexibility and ability to be used for a wide range of applications. Thereby all devices of the sysWORXX Automation Series speak a common language – CANopen. Large or compact controllers, machine or process automation – the sysWORXX Automation Series covers a wide spectrum of use. The sysWORXX I/O devices are just the right completion to existing CANopen systems and expand the possibilities of distributed control systems easily.

Focus on the application

Today, complexity of automation should be limited to the application. Thereby the automation system is meant to be a solution and should not bring any additional complication or even increase complexity. The sysWORXX Automation Series was designed to solve complex tasks in a simple way. Harmonizing software tools for configuration and analysis eases the task of implementation, test and commissioning of your application.

Trouble-free integration

Due to its simplicity the sysWORXX I/O devices can be used without special know-how. That helps you to achieve your targets faster, yet provides most economical solutions. Simply connect, configure and you are done.

Accompanied by our powerful software tools, the sysWORXX devices achieve their full potential and allow you to implement applications of best performance and flexibility. Thereby the seamless integration into existing CANopen structures is a major advantage.

Easy servicing

The sysWORXX Automation Series simplifies troubleshooting. Plug & Play mechanisms register and configure replacement modules for instant use. Thanks to separated terminal blocks, wiring remains unaffected. Being able to quickly exchange the automation components minimizes downtime considerably.

Highlights

- Designed for a wide range of applications: analog, digital and temperature modules
- Easy integration and configuration
- Plug & Play supports easy exchange of devices

Component Overview

CANopen IO-X1



CANopen IO-X2



CANopen IO-X3



CANopen IO-X4



CANopen IO-X5



CANopen IO-X6



CANopen IO-X7



Feature	IO-X1	IO-X2	IO-X3	IO-X4	IO-X5	IO-X6	IO-X7
Digital Inputs 24 VDC/isolated	16	24					
Digital Outputs 24 VDC/ 0,5A isolated	8		24				
Analog Inputs 0..10V, +/- 10V, 0..20mA, 4-20 mA				8			
Analog Outputs 0..10V, +/- 10V, 0..20mA, 4-20 mA						8	
Resistance Temperature Detectors PT100, PT1000					8		
Thermocouple Sensors type J, K, L, R, S, T, E							8

Features

- Supported bit rates: 10/20/50/100/125/250/500/800/1000 kbit/s
- Galvanic isolated CAN-bus, supports up to 110 CAN-nodes on same bus
- Jumper for CAN-bus termination
- Hex-encoding switches for setting node-ID and bit-rate
- High-quality connectors included
- Internal monitoring and diagnostics of: onboard temperature, power supply, memory, I/O and other controller internals
- Five heartbeat consumer
- SYNC consumer
- Non-volatile storage of the configuration data
- Power supply: 24 V ± 20%
- IP20 enclosure, dimensions: 95 mm x 70 mm x 58 mm, DIN-rail mountable
- Operating temperature: -20 °C to 70 °C (0 °C to 50 °C for I/O-X7)

Enhanced diagnostics

Helpful diagnostic options let you find and identify errors quickly. LEDs indicate the bus status as well as each I/O state. Internal diagnostic measures reduce the possibility of undiscovered errors and ensure the device is ready for operation when it goes online. In addition all sysWORXX devices send emergency messages, precisely indicating the type of error that occurred. An error state can be assigned to each process output to make sure the system is safe in case of error.