





Electronic Equipment for Traffic Systems

Features

- Autonomous industrial module for 8 inputs and 8 outputs with 24V level
- High operational safety due to electronic switch-off of the outputs in the event of overload
- Extended temperature range -20 to +70°C
- Control and communication via CAN bus
- Operation with 24V DC (reverse polarity protected)
- Up to 8 modules (64 I/O) on the same CAN bus

Applications

- Remote-controlled input/output units
- Extension of TLC-003 modules

Functional Description

The IOC-002 module is used for decentralized processing of parallel digital signals with a level of 24V DC.

Each level change of an input is transmitted spontaneously on the CAN bus.

All outputs are tri-state capable (push / pull / high impedance).

High operational safety is achieved through protection against short circuits and overload, whereby the outputs are permanently monitored and completely switched off in case of emergency. The outputs are then high-impedance, i.e. neither connected to 24V nor to 0V. The switch-off is signaled on the CAN bus. Address configuration with DIP switches allows up to 8 IOC-002s to be operated on the same CAN bus. In turn this allows the use of a maximum of 64 inputs and 64 outputs.

All inputs and outputs as well as the system status and communication on the CAN bus are displayed with corresponding LEDs.

Technical Specifications

Mechanics

Assembly:	Housing dimensions 70 x 90 mm, depth 55 mm (without connector)
Mounting:	Fixing on DIN rail 35 mm or can be screwed to rear panel
Connections:	2 separable plugs with 2 contacts each (power supply / communication)
	2 separable plugs with 8 contacts each (inputs/outputs)

Electrical Data

Supply voltage:	24V DC ± 10%
Power consumption: :	< 1 W
Digital input voltage:	20V – 30V DC
Power loss of digital input:	< 50 mW
Total current of digital outputs:	max. 1A

Communication

CAN-Bus data rate: 1 Mbit

Environmental Conditions

Operating temperature:	-20 bis +70°C
Storage temperature:	-40 bis +80°C
Humidity:	up to 90%, non-condensing

Options

- Housing variant for rear panel mounting
- Customized adaptation of the firmware

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