



I/O Add-On Module QDIO 16/16-0,5 / QDIO 16/16-0,5N

■ Brief description

The QDIO 16/16-0,5 is a cost-effective add-on module for CAN nodes in CANtrol automation systems.

- 16 digital input ports
- 16 digital I/O ports for individual configuration

This module is linked to the CAN node via its Extension Bus (E-Bus).

The QDIO 16/16-0,5 module features 16 digital inputs plus 16 individually configurable digital I/Os on-board.

With a small space requirements the QDIO 16/16-0,5 is ideal for distributed solutions.

The module simply snaps to standard mounting rails.

■ Selective power supply

The QDIO 16/16-0,5 I/Os are supplied with power via signal-level connectors.

The I/O can be split into six groups to be supplied separately.

The I/Os of each group can thus be cut off selectively from the power supply via external actuators.

The signal level is 24 VDC.

■ Field-level power supply

The signal level of the QDIO 16/16-0,5 is factory-configured with connector strips for easy wiring. Connections are made at the front. Choose any of three connection techniques:

- screw connection
- spring latch
- crimping

The I/Os use three leads. Front-panel LEDs provide information on the I/O status.

The LEDs are directly mapped to the I/O ports for instant identification. Labeling strips can be inserted to identify each I/O channel.



■ System integration

The QDIO 16/16-0,5 is controlled via its front-end CAN node to which it is connected via the E-Bus.

Multiple add-on modules can be arranged in an in-line configuration. See the applicable CAN node documentation for the exact number of add-on modules.

At a glance - a brief overview

Module data		
I/O Add-On Module		
	high-side-switching	low-side-switching
Name	QDIO 16/16-0,5	QDIO 16/16-0,5N
Item no.	213351	13520
Dimensions WxHxD [mm]	124 x 170 x 85,5 (modular dimension W = 113/118,5)	
Weight	approx. 700 g	
Mounting	NS 35/7,5 EN 50022 mounting rail	
Working temperature range	5° C to 50° C (non-moisture condensation) convection cooling provided	
EMC, class of protection, insulation testing, degree of protection		
Emitted interference	EN 50081-2, industrial sector	
Noise immunity	EN 50082-2, industrial sector	
Class of protection	III	
Insulation resistance	EN 61131-2; 500 VDC (test voltage)	
Degree of protection	IP20	
Supply voltage, power consumption		
Module electronics power supply (supply voltage)	SELV +24 VDC max. 0,15 A (EN 61131-2)	
Power supply, digital I/Os	+24 VDC (EN 61131-2) subdivided into 6 groups	
Power consumption	at U _e = +24 VDC idling max. 300 mA; all I/Os activ approx. 10 A	
Power supply revers voltage protection	yes	
Electrical isolation	yes, between CAN bus and digital I/Os	
Digital inputs/outputs		
Number of inputs	16	
Number of inputs/outputs	16, individually configurables as inputs or outputs	
Short circuit protection	yes	
Output current	0,5 A	
Connection method	vertical three-wire front wiring with push-on terminal strips of screw, spring or crimp connection Connector plug: 6 x 18 pole	
Operation and display		
LED's	1 status-LED per input/output	
Interfaces		
Type of interfaces	E-bus	