



## Remote I/O Module RDIO 16/16-0,5

### ■ Brief description

The module is a CANopen-capable remote module with 32 digital I/Os and fixed functionality. The module is a CANopen slave device complying with CiA Draft Standard DS401. The remote module comprises 16 digital inputs and 16 digital outputs. Each output is also usable as an input (combined I/Os). The Remote module can be extended locally by connecting digital expansion modules.

- 16 digital Input ports
- 16 digital I/O ports for individual configuration
- With 6 QDIO's extensible
- CANopen Slave DS401

The I/O level of the Remote module can be extended by adding a maximum of 6 E-bus expansion modules, each with 32 digital I/Os.

Assembling e.g. 6 digital expansion modules is equivalent to 224 I/Os.

### ■ Selective power supply

I/O power is supplied via the 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 24VDC.

### ■ Field-level connections

The signal level 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 3 leads. Front-panel LEDs provide information on the I/O status and operational status of the module. The LEDs are directly mapped to the I/O ports for instant identification. Labeling strips can be inserted to identify each I/O channel.

## At a glance - a brief overview

<b>Module data</b>	
Name	<b>RDIO 16/16-0,5</b>
Item no.	2020020
Dimensions W × H × D [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
Expansion	with up to 6 E-bus expansion modules
Working temperature range	5°C to 50°C (no moisture condensation) convection cooling provided
<b>EMC, class of protection, insulation testing, degree of protection</b>	
Emitted interference	EN 50081-2, industrial sector
Noise immunity	EN 50082-2, industrial sector
Class of protection	EN 61131-2; class IIIIII
Insulation resistance	EN 61131-2; 500 VDC test voltage
Degree of protection	IP 20
<b>Supply voltage, power consumption</b>	
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 <sub>e</sub> = +24 VDC no load max. 300 mA, fuse protection according to load on I/Os, max. 10 A
Power supply reverse voltage protection	yes
Electrical isolation	yes, between CANbus and digital I/Os
<b>Digital inputs/outputs (DIO)</b>	
Number of inputs	16
Number of inputs/outputs	16, individually configurable 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 for screw, spring or crimp connection Connector plug: 6 x 18 pole
<b>Operation and display</b>	
LEDs	5 status LEDs; 1 status LED per input/output
'S' button	yes, at the front (including module reset)
<b>Interfaces</b>	
Type of interface	1 CAN bus, E bus, RS232
Configuration	via CANbus or RS232 interface