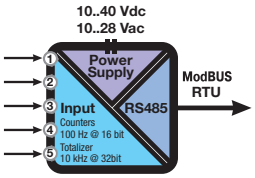


Z-D-IN

5-CH DIGITAL INPUT MODULE / RS485 MODBUS RTU

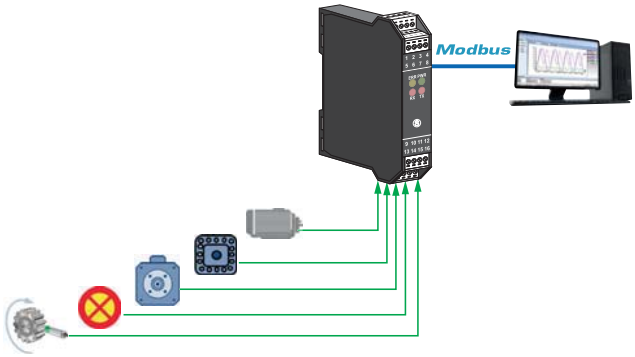


Z-D-IN is 5 digital inputs with self-powered 16 Vdc shared negative pole. The module has removable terminals with section of 2.5 mm2. Input channel are protected by 600 W/ms TVS transient current suppressers. Z-D-IN input channels have 100 Hz 16 bit counters, with settable filter. It's also possible to set the input as fast totalizer with 32 bit, max frequency 10 kHz. RS485 serial communication supports Modbus-Rtu protocol, maximum 32 nodes. Max 3-way isolation module is 1.500Vac.

TECHNICAL SPECIFICATIONS

Electrical Specifications	
Power supply	10..40 Vdc / 19..28 Vac / 50-60 Hz
Power consumption	2,5 W
Isolation	1.500 Vac (3 way)
Power transducers	Yes
Status Indicators	Power supply, error, data transmission, data reception, input status
Protection Degree	IP20
Operating Temperature	0..+55 °C
Dimension (W x H x D)	17.5 x 100 x 112 mm
Weight	About 140 g
Enclosure	Nylon 6 with 30% glass-fiber, V0 self-extinguished class
Connections	-Removable terminals block, plug in connectors, max wire size 2,5 mm^2 -Rear IDC10 connector for Z-PC backplane
Mounting	35 mm DIN rail guide
Communication, Elaboration, Memory	
Interface	2 wire RS485
Speed	Up to 57.600 bps
Protocol	ModBUS RTU slave
Communication Time	< 10 ms (38400 baud)
Distance	Up to 1.200 m
Connectivity	Max 32 nodes
Data Memory	EEPROM for the configuration parameters, retention time 10 years, Nr 4 registers 16 bit Nr 1 register 32 bit Nr 5 bit overflow
Signals	
Channel Numbers	5
Type	Opto-isolated for REED, PROXIMITY, PNP, NPN, contact, etc. Nr 4 input with countering function 16 bit, frequency max 100 Hz Nr 1 input with countering function 32 bit, frequency max 10 kHz Bounce Filter 5..250 ms
Configuration	
DIP switches	Baud rate, node, parity, serial port, bit stop, termination line
Software	Z-NET3 (Iec 61131) EASY Z-D-IN (plug&play) EASY SETUP
Standard	
Approval	CE, RINA
Norms	EN 50081-2; EN 55011; EN 50082-2; EN 61000-2-2/4; EN 50140/141; EN 61010-1

APPLICATION NOTE



ORDER CODES

Code	Description
Z-D-IN	5-CH Digital input module / RS485 ModBUS RTU, 10..40 Vdc / 19..28 Vac

ACCESSORIES & SOFTWARE



Z-PC-DIN
Backplane for power & bus communication
pg. 36



Z-SUPPLY
Switching power supply
pg. 36



Z-NET
IEC 61331 programming software
pg. 36



EASY SETUP
Plug&Play configuration software
pg. 36

SIMILAR PRODUCTS



Z-10-D-IN
10-CH Digital Input module / RS485
pg. 12



Z-D-IO
8-CH, 6 digital input - 2 digital outputs control module
pg. 14



ZC-24-DI
24 CH digital input CANopen / ModBUS
pg. 28



ZC-16DI-8DO
16 CH digital input - 8 CH digital output CANopen / ModBUS
pg. 30

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