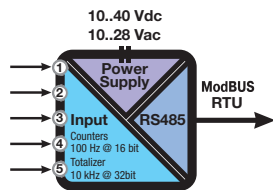




# Z-D-IN

## 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 mm<sup>2</sup>. Input channels 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 <sup>2</sup> -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, N° 5 registers 16 bit, N° 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 16 bit, frequency max 10 kHz Bounce Filter 5..250 ms

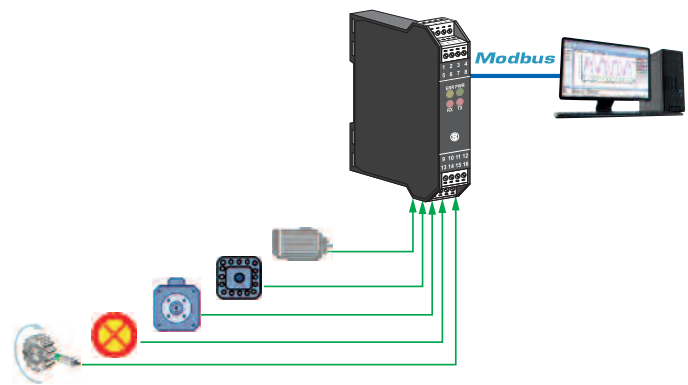
#### Configuration

DIP switches	Baud rate, node, parity, serial port, bit stop, termination line
Software	Z-NET3 (lec 61131) EASY Z-D-IN (plug&play)

#### 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

<b>Z-PC-DIN</b> Backplane for power & bus communication	<b>Z-SUPPLY</b> Switching power supply	<b>Z-NET</b> IEC 61331 programming software	<b>EASY SETUP</b> Plug&Play configuration software

### SIMILAR PRODUCTS

<b>Z-10-D-IN</b> 10-CH Digital Input module / RS485	<b>Z-D-IO</b> 8-CH, 6 digital input - 2 digital outputs control module	<b>ZC-24-DI</b> 24 CH digital input CANopen / ModBUS	<b>ZC-16DI-8DO</b> 16 CH digital input - 8 CH digital output CANopen / ModBUS