

Z-PC LINE

Digital I/O modules

ZC-24DI

24 CH Digital Input module / CANopen-ModBUS RTU



NEW
CANopen & ModBUS
all-in-one



CANopen



Modbus

Power Supply	10..40 Vdc, 19..28 Vac
Max Consumption	2,5 W
Isolation	1,5 kVac (3 way)
Channels	24
Polarity	EN 61131-2 sink (npn)
Totalizers	8, 32 bit (max 10 kHz)
TPDO	< 1 ms
Supported Protocols	CAN bus standard (2.0A), CANopen (CiA 401 v.2.01), ModBUS RTU
Dip-Switches	Baud rate and ID Node configuration
Operating temperature	-10..+65°C
Dimension (W*H*D)	35 x 100 x 112 mm



➔ For additional information please refer to www.seneca.it

ZC-24DI

24 CH Digital Input module / CANopen-ModBUS RTU



ORDER CODES

Model	ZC-24DI	24 CH Digital Input module / CANopen-ModBUS 10..40 Vdc / 19..28 Vac
Accessories	Z-PC-DINAL1-35 Z-PC-DIN1-35 Z-PC-DIN4-35 PM001601	Terminal block for power / bus + 1 slot 35 mm 1 slot block 35 mm 4 slot block 35 mm Programming serial cable Jack / DB9F
Configuration		EDS File (Electronic Data Sheet) free on www.seneca.it

TECHNICAL FEATURES

GENERAL DATA

Power Supply	10..40 Vdc; 19..28 Vac
Max consumption	1 W
Isolation	1,5 kVac (3 way)
Input Protection	Against ESD up to 4 kV
Rejection	Settable 50 or 60 Hz
Status indicator (LED)	Power Supply, communication, fault
Dimension (WxHxD)	35 x 100 x 112 mm
Enclosure, weight, color	PBT, 140 g, black
Operating temperature	-10..+65°C
Connection	Screw-fit removable for wires up to 3.5 mm IDC10 Back connector for DIN rail frontal Jack RS232 (ModBUS) (COM) connection
Protection degree	IP20
Configuration	DIP switches (baud rate, ID Node) EDS IEC 61131
Supported Protocols	CAN bus standard (2.0A) CANopen (profile CiA 401 v.2.01) ModBUS RTU
Max CANopen Speed	1 Mbps
Norms & Approvals	CE, EN 61000-6-4, EN 64000-6-2, EN 61010-1 CAN 2.0A CiA 401 v.2.01 IEC EN 61131-2

INPUT DATA

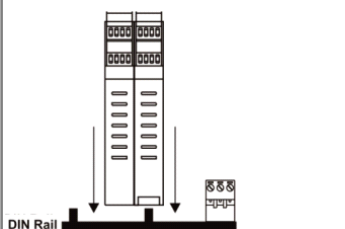
Channels	24 (with shared negative pole, selfpowered at 16 Vdc)
Polarity	EN 61131-2 type 2, synq (pnp)
Totalizers	Nr 8 @ 32 bit, freq. max 10 kHz Settable increment, reset, preset, overflow indication
Vmax	30 V
Min pulse width	50 µs
On/Off delay	< 1 ms
TPDO	< 1 ms

CANOPEN FEATURES

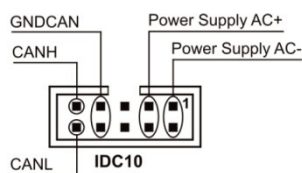
NMT	Slave
Error control	Node guarding
Node ID	Software, DIP-switches
Nr PDO	RX 5
PDO Modes	Event Triggered, Sync (cyclic), Sync (acyclic)
PDO linking	Yes
PDO mapping	Variable
Nr SDO Server	1
Emergency Messages	Yes
Application layer	CiA 301 v. 4.02
Profile	CiA 401 v. 2.01

ELECTRICAL CONNECTIONS

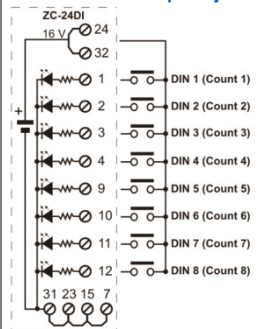
Module insertion on DIN guide 46277



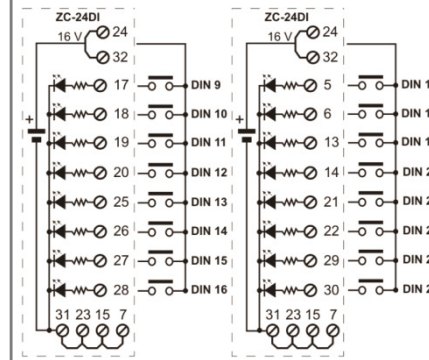
IDC10 back connectors



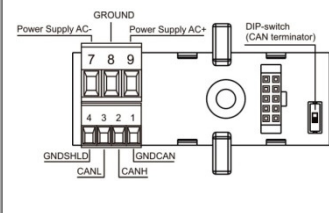
Digital Inputs settable as 32-bit counters with 10 kHz maximum frequency



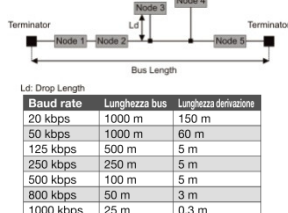
Generic Digital Inputs



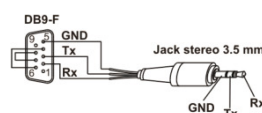
Backplane bus Z-PC DIN



CANbus Connection Norms



RS232 - DB9F / Jack stereo Serial connection



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