Z-PC LINE CANopen
Analog I/O modules

ZC-4RTD

4-CH RTD Input module / CANopen

CE

CANopen

IEC

Power Supply	10..40 Vdc, 19..28 Vac
Isolation	1,5 kVac (6 way)
Accuracy	0,05%
A/D resolution	14 bit
Channels	4
Input Range	Pt100 (-200..+650°C); Pt500 (-200..+750°C) Pt1000 (-200..+210°C); Ni100 (-60..+250°C)
Response time	< 20 ms
Supported Protocols	CAN bus standard (2.0A), CANopen (CiA 401 v.2.01)
Dip-Switches	Baud rate and ID Node configuration
Operating Temperature	-10..+65°C
Dimension (W*H*D)	17,5 x 100 x 112 mm

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

SENECA

ZC-4RTD

4-CH RTD Input module / CANopen

ORDER CODES

Model	**ZC-4RTD**	4-CH RTD input (P100, Ni100, Pt500, Pt1000) CANopen, 10..40 Vdc / 19..28 Vac
Accessories	**Z-PC-DINAL2-17.5**	Terminal block for power / bus + 2 slot 17.5 mm
	Z-PC-DIN2-17.5	2 slot block 17.5 mm
	Z-PC-DIN8-17.5	8 slot block 17.5 mm
	PM001601	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 (6 way)
Input Protection	Against ESD up to 4 kV
Rejection	Settable 50 or 60 Hz
Status indicators (LED)	Power Supply, communication, fault
Dimension (WxHxD)	17,5 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 (via RS232)
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

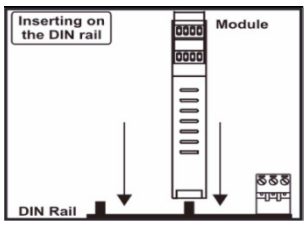
Channels	4 RTD input isolated, 2, 3, 4 wires
Pt100 [EN 60751/A2(ITS-90)]	-200..+600°C, resistance 18,5..300 Ω
Pt1000 [EN 60751/A2(ITS-90)]	-200..+210°C, resistance 18,5..1.800 Ω
Pt500 [EN 60751/A2 (ITS-90)]	-200..+750°C, resistance 92,5..1.800 Ω
Ni100	-60..+250°C, resistance 69..295 Ω
Resolution	13 or 14 bit
Thermal Derivation	< 50 ppm/°C
Accuracy	0,05%
Sampling Frequency	11..48 Hz

CANOPEN FEATURES

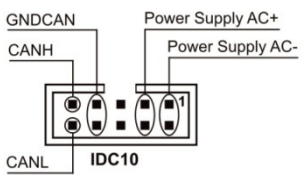
NMT	Slave
Error control	Node guarding
Node ID	Software, DIP-switch
Nr PDO	RX 5
PDO Modes	Event Triggered, Sync (cyclic), Sync (acyclic)
PDO linking	Yes
PDO mapping	Variable
Nr SDO Server	1
Emercency Messages	Yes
Application layer	CiA 301 v. 4.02
Profile	CiA 401 v. 2.01

ELECTRICAL CONNECTIONS

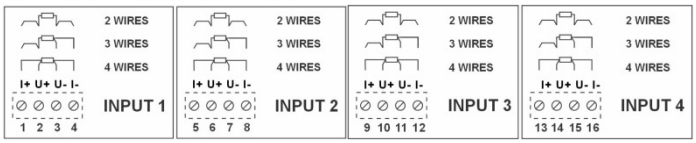
Module insertion on DIN guide 46277



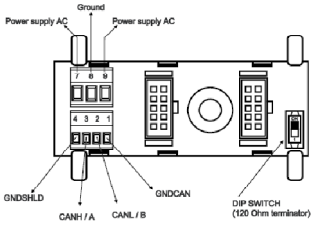
IDC10 Back Connector



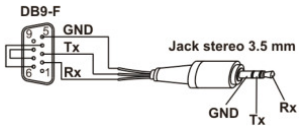
RTD Inputs



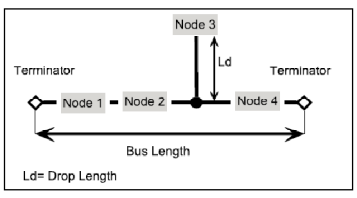
Backplane bus Z-PC DIN



RS232 – DB9F / Jack stereo Serial connection



CANbus Connection Norms



Baud rate	Lunghezza bus	Lunghezza derivazione
20 kbps	1000 m	150 m
50 kbps	1000 m	60 m
125 kbps	500 m	5 m
250 kbps	250 m	5 m
500 kbps	100 m	5 m
800 kbps	50 m	3 m
1000 kbps	25 m	0.3 m

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