)ЛІЕХі Phone: +1 561 779 5660 E-mail : Info@datexel.com Web Site : www.datexel.com

CANopen Slave Device Digital Inputs and Outputs

FEATURES

- Field bus data acquisition
- CAN open protocol
- Baud rate and Node ID configurable by dip-switch
- 8 digital inputs
- 4 relay outputs (2 SPDT + 2 SPST)
- LEDs of signalling for inputs and outputs status
- LEDs of signalling for power supply and error status
- 3 ways Galvanic Isolation
- Connection by removable screw terminals
- CE/UKCA mark

- DIN rail mounting in compliance with EN-50022

GENERAL DESCRIPTION The device DAT 7130 is able to acquire up to 8 digital inputs and to drive up to 4 relay outputs. The data are transmitted by the CANopen protocol. The connection is made by removable screw-terminals.

The device realizes a full electrical isolation between the lines, introducing a valid protection against the effects of all ground loops eventually existing in industrial applications. The device is housed in a self-extinguishing plastic enclosure which, thanks to its thin profile of 22.5 mm only, allows a high density mounting on EN-50022 standard DIN rail.

USER INSTRUCTIONS

Before to install the device, please read the "Installation Instruction" section.

Connect power supply, serial bus, digital inputs and outputs as shown in the "Wiring" section.

- The LEDs state depends on the working condition of the device: see the "Light Signalling" section to verify the device working state.
- To simplify handling or replacing of the device, it is possible to remove the wired terminals even with the device powered.

TECHNICAL SPECIFICATIONS (Typical @ 25 °C and in the nominal conditions)

DIGITAL INPUTS (WET CONTACTS)		CAN OPEN INTERFACE		GENERAL SPECIFICATIONS	
Channels Input voltage (bipo OFF State ON State N° of counters Min. Pulse width	8 olar) 0 ÷ 3 V 10 ÷ 30 V 8 @ 300 Hz (32 bits) 1 ms	Device profile in complianc 301 and CiA DS 401 stand Data Transmission Baud rate Max. Distance		Supply Voltage Polarity inversion protection Max. Consumption @24Vdc Max Consumption ISOLATION (test time 1 mi Power Supply / CAN	18 30 Vdc 60 Vdc max 70 mA 100 mA inute) 2000 Vac, 50 Hz
Impedance Sample time	4.7 KΩ 5 ms			Outputs / Power supply Inputs / Power supply Outputs / CAN	2000 Vac, 50 Hz 2000 Vac, 50 Hz 2000 Vac, 50 Hz 2000 Vac, 50 Hz
DIGITAL OUTPUTS				Input / Output Inputs / CAN	2000 Vac, 50 Hz 2000 Vac, 50 Hz
Channels Type	4 n° 2 SPDT relays n° 2 SPST N.O. relays			ENVIRONMENTAL CONDITIONS Operative Temperature -10°C +60°C Storage Temperature -40°C +85°C Humidity (not condensed) 090 %	TIONS -10°C +60°C -40°C +85°C
Max Switching pov	ver (resistive load) per contact 2 A @ 250 Vac 2 A @ 30 Vdc			Maximum Altitude Installation Category of installation Pollution Degree	2000 m Indoor II 2
Max.voltage	250 Vac (50 / 60 Hz), 30 Vdc			Outputs/Inputs Rer	Self-extinguish plastic IP20 wires with diameter 0.8+2.1 mm ² /AWG 14-18 0.8 N m in compliance with DIN rail standard EN-50022 about 210 g. ironments) EN 61000-6-2 EN 61000-6-4

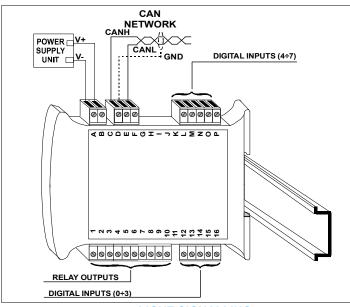


DAT 7130

INSTALLATION INSTRUCTIONS

The device is suitable to be mounted on DIN rail, in vertical position. For a correct working and a long life of the device, read the following indications. In case of the devices are mounted side by side, please leave a spacing of about 5mm between them if the temperature in the cabinet is higher than 45 °C and supply voltage >27Vdc. Avoid to place raceways or other objects which could obstruct the ventilation slits. It is suggested to avoid that devices are mounted above appliances generating heat; their ideal place should be in the lower part of the panel. Avoid to install the devices in a site where vibrations are present. It is recommended to use shielded cable for connecting signals. The shield must be connected to an earth wire provided for this purpose. Moreover it is suggested to avoid routing conductors near power signal cables.

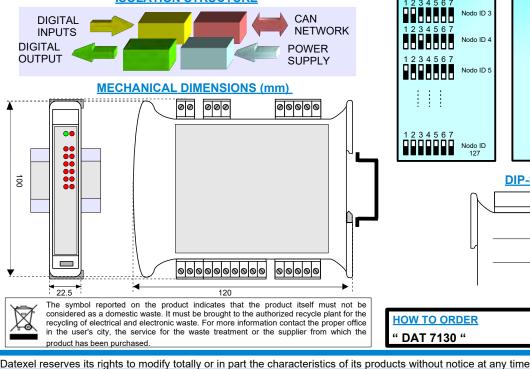
TERMINALS OVERVIEW



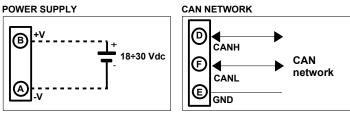
LIGHT SIGNALLING

LED	COLOUR	STATE	DESCRIPTION
RUN	GREEN	ON	Device in Operational mode
		BLINKING	Device in Pre-Operational mode
		SLOW BLINKING	Device stopped
ERR	RED	OFF	No error
		BLINKING	Communication error
l n	RED ON Stat		State 1Digital Inputs.
		OFF	State 0 Digital Inputs.
O n	n RED ON		State 1Digital Outputs.
		OFF	State 0 Digital Outputs.

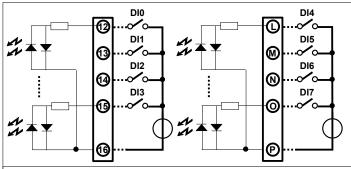
ISOLATION STRUCTURE



WIRING

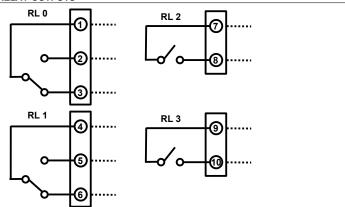


DIGITAL INPUTS

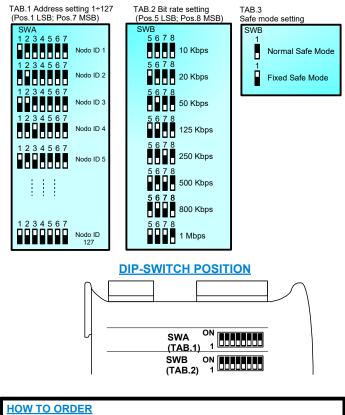


NOTE: Input channels are not insulated between them

RELAY OUTPUTS



DIP-SWITCH CONFIGURATION TABLE



" DAT 7130 "