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CANopen Server 8 digital inputs + 8 PNP outputs

FEATURES

- Field bus data acquisition
- CAN open protocol
- Baud rate and Node ID configurable by dip-switch
- 8 digital inputs
- 8 digital outputs, PNP type
- 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 7188 is able to acquire up to 8 digital inputs and to drive up to 8 PNP transistor 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	8 blar) 0 ÷ 3 V 10 ÷ 30 V	Device profile in compliance 301 and CiA DS 401 standa Data Transmission		Supply Voltage Polarity inversion protection Max. Consumption @24Vdc Max Consumption	10 30 Vdc 60 Vdc max 45 mA 100 mA
N° of counters Min. Pulse width Impedance Sample time	8 @ 300 Hz (32 bits) 1 ms 4.7 KΩ 5 ms	Baud rate Max. Distance	up to 1 Mbps in function of the Baud rate	ISOLATION (test time 1 mi Power Supply / CAN Outputs / Power supply Inputs / Power supply Outputs / CAN	nute) 2000 Vac, 50 Hz 2000 Vac, 50 Hz 2000 Vac, 50 Hz 2000 Vac, 50 Hz
DIGITAL OUTPUTS				Input / Output	2000 Vac, 50 Hz
Channels	8	Inputs / CAN ENVIRONMENTAL C			2000 Vac, 50 Hz
Type Voltage Max. Load Inductive Load	PNP 10.5÷30 Vdc 500 mA per channel(*) 1 A per module 48 Ω – 2H max			Operative Temperature Storage Temperature Humidity (not condensed) Maximum Altitude Installation Category of installation Pollution Degree	-10°C +60°C -40°C +85°C 0 90 % 2000 m Indoor II 2
				Outputs/Inputs Ren	Self-extinguish plastic IP20 wires with diameter 0.8÷2.1 mm² /AWG 14-18 0.8 N m in compliance with DIN rail standard EN-50022 about 150 g.
(*) Protection against Short circuit current 1	over-current and over-temperature			Emission UKCA (ref S.I. 2016 N°1091) Immunity	EN 61000-6-2 EN 61000-6-4 BS EN 61000-6-2 BS EN 61000-6-4

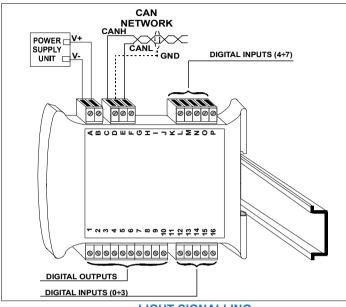


DAT 7188

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.

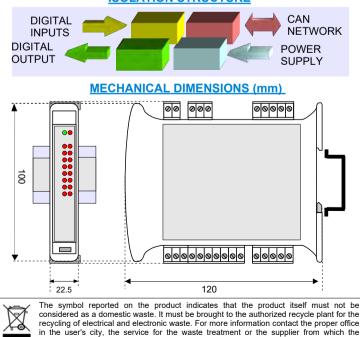
TERMINALS OVERVIEW



LIGHT SIGNALLING

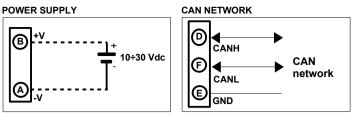
LED	COLOUR	STATE	DESCRIPTION
RUN	GREEN	ON Device in Operational mode	
		BLINKING	Device in Pre-Operational mode
		SLOW BLINKING	Device stopped
ERR	RED	OFF	No error
		BLINKING	Communication error
l n	RED	ON	State 1Digital Inputs.
		OFF	State 0 Digital Inputs.
O n	RED	ON	State 1Digital Outputs.
		OFF	State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

ISOLATION STRUCTURE

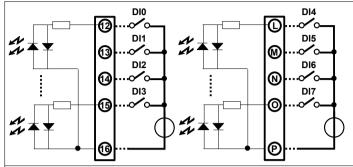


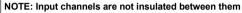
product has been purchased.

WIRING

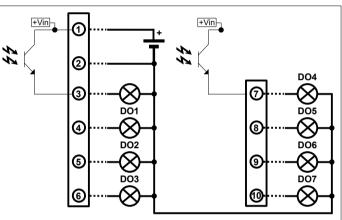


DIGITAL INPUTS





DIGITAL OUTPUTS



NOTES: Output channels are not insulated between them

DIP-SWITCH CONFIGURATION TABLE

