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CANopen Server 16 digital inputs

- Field bus data acquisition
- CAN open protocol
- Baud rate and Node ID configurable by dip-switch
- 16 digital inputs
- LEDs of signalling for inputs 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 7148 is able to acquire up to 16 digital inputs. 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 and digital inputs 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.

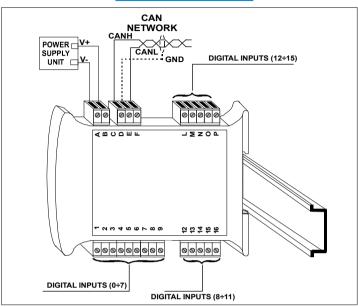
TECHNICAL SPECIFICATIONS (Typical @ 25 °C and in the nominal conditions)

DIGITAL INPUTS (WET CONTACTS)	CAN OPEN INTERFACE		GENERAL SPECIFICATIONS	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Device profile in compliance with the CiA DS 301 and CiA DS 401 standards. Data Transmission		Supply Voltage Polarity inversion protection Max. Consumption @24Vdc Max Consumption	10 30 Vdc 60 Vdc max 45 mA 80 mA
	Baud rate Max. Distance	up to 1 Mbps in function of the Baud rate	ISOLATION (test time 1 m Power Supply / CAN Inputs / Power supply Inputs / CAN	ninute) 2000 Vac, 50 Hz 2000 Vac, 50 Hz 2000 Vac, 50 Hz
			ENVIRONMENTAL COND 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
			Outputs/Inputs Re	emovable screw-terminals emovable screw-terminals emovable screw-terminals
			MECHANICAL SPECIFICA Material	ATIONS Self-extinguish plastic
			IP Code Wiring	IP20 wires with diameter 0.8÷2.1 mm² /AWG 14-18
			Tightening Torque Mounting	0.8 N m in compliance with DIN rail standard EN-50022
			Weight	about 150 g.
		CERTIFICATIONS EMC (for the Industrial Environments)		
			Immunity	EN 61000-6-2
			Emission	EN 61000-6-4
			UKCA (ref S.I. 2016 N°1091 Immunity) BS EN 61000-6-2
			Emission	BS EN 61000-6-4

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.

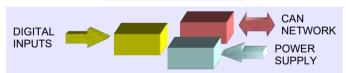
TERMINALS OVERVIEW



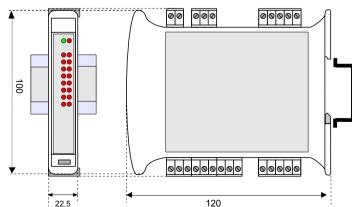
LIGHT SIGNALLING

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.	

ISOLATION STRUCTURE



MECHANICAL DIMENSIONS (mm)

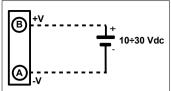


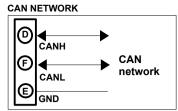


The symbol reported on the product indicates that the product itself must not be considered as a domestic waste. It must be brought to the authorized recycle plant for the recycling of electrical and electronic waste. For more information contact the proper office in the user's city, the service for the waste treatment or the supplier from which the product has been purchased.

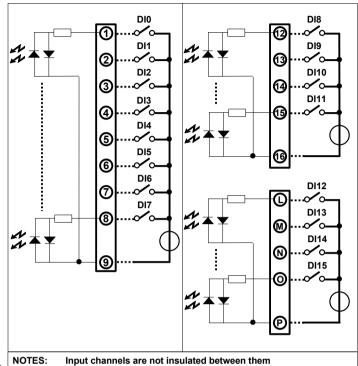
WIRING

POWER SUPPLY

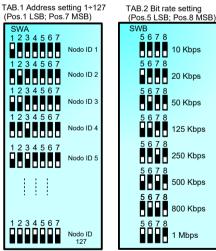


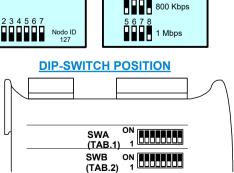


DIGITAL INPUTS



DIP-SWITCH CONFIGURATION TABLE





50 Kbps

125 Kbps

250 Kbps

500 Kbps

HOW TO ORDER DAT 7148 "