CAB44V Module

CANBUS MODULE WITH 4 ANALOG INPUTS, AND 4 ANALOG OUTPUTS

CAB44V is a CanBus module with CanOpen protocol mountable on a standard DIN rail, which provides 4 analog inputs, and 4 analog outputs.

The space required for installation is minimized by the vertical design of the module.

The input mode can be modified by software, allowing the module to read differential voltage inputs with dynamics 0/10 V or +10/-10 V, current signals with dynamics 4/20mA or 0/20 mA, and potentiometric tranducers powered by the module with a stabilized, and short-circuit protected reference voltage. It is optionally possible to read PT100 type transducers.

6 groups of spring-cage connectors are provided:

- One 4 points group, of which only 2 are used for 24 V power supply;
- One group of 8 connectors grouped in 4 independent subgroups of 4 connectors. Each subgroup provides these connections;
- One 8 points group for the CanBus line, connected in pairs with the following scheme:
  - left(+24V_CAN)
  - middle left (GND_CAN)
  - middle right (CANH)
  - right (CANL)
- Four 5 points groups each for analog input, and output connections.For each group, individually extractable, the purpose of the connectors follows:
  - Positive voltage reference for the potentiometers;
  - Differential voltage signal input negative pole / Current input negative pole;
  - Differential voltage signal input positive pole / Current input positive pole / Potentiometric cursor / PT100 pole;
  - 0V reference for the potentiometer, and for analog output / PT100 pole
  - Analog output

Technical specifications

Dimensions (H x W x D)	120 x 23 x 112 mm
Mounting	Standard DIN rail
Power supply	24 V (18 – 36 V)
Module power consumption	170 mA
Analog input channels	4
Analog output channels	4
Differential input voltage	0/10 V oppure +10/-10 V
Input current	4/20 mA oppure 0/20 mA
Minimum potentiometer resistance	1 kOhm
Potentiometer voltage reference	10 V
Output voltage	+10/-10 V
ADC converter resolution	12 bit
DAC converter resolution	12 bit
Minimum output load	10 kOhm
CanBus Baud Rate	125 kbps /250 kbps / 500 kbps / 1 Mbps
Marking	CE
Operating temperature	0 – 55 °C
Storage temperature	-20 – 85 °C
Warehousing humidity	Max 95% non-condensing
CanOpen Standards	DS301 – DS401
Protection marking	IP20