

# CAN-CBM-DIO8

## 8 digital inputs or outputs

- low cost compact CAN module
- I/Os free selectable as digital inputs or outputs
- direct fixing at DIN-EN mounting carrier

### Industrial Design

The wiring of the inputs and outputs of the CANbloc-Mini module is done via COMBICON plug-in terminal blocks with staggered arrangement for easy wiring. The configuration of the I/Os can be done by a coding switch. Each I/O channel can be set separately as an input or output for highest flexibility directly at the installation location. The case has the protection class IP 20.

### CAN Bus

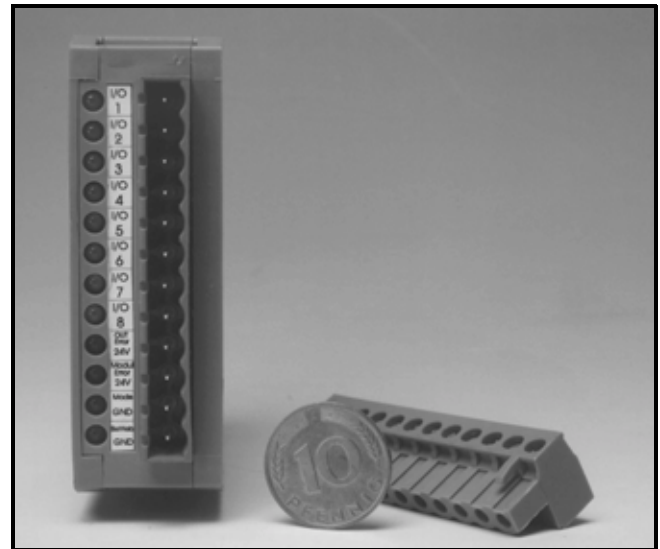
The physical CAN layer is designed according to ISA 11898 and electrically isolated. The maximum data transfer rate is 1 Mbit/s. The setting of the bitrate can be made from external at a coding switch. CAN wiring is done by a 3-pole plug-in terminal block.

### Intelligent Microcontroller

The module uses a SAB 80C515C microcontroller with integrated CAN 2.0B interface and firmware EPROM. In an external EEPROM the module configuration is stored. Error detection and output status of the drivers is displayed by LEDs and transmitted at the CAN bus.

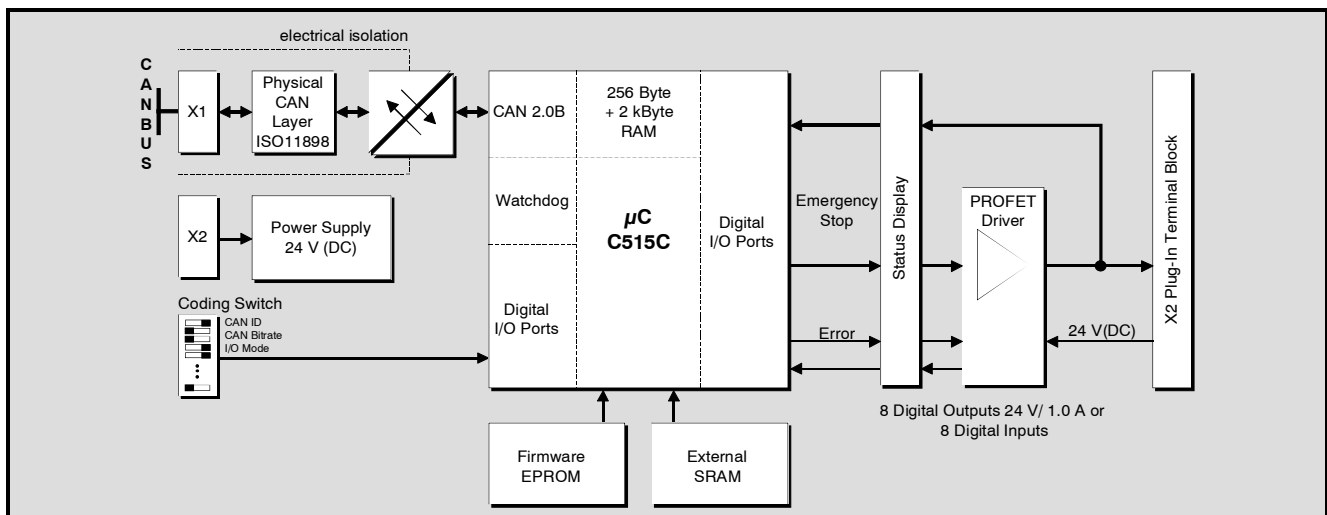
### Address of the CANbloc Module

The setting of the CAN device address is done by the coding switch.



### CAN Protocols

The CANbloc-Mini module works with the CANopen protocol according to CiA-DIS401 in the default configuration.



### Technical Specifications:

Process coupling:	
Number of digital in/outputs:	8 channels, each selectable as input or output by coding switch
Specification of the digital inputs:	input voltage (nominal value): 24 V(DC) maximum ratings: -3 V...+30 V(DC)
Specification of the digital outputs:	power supply (permitted): +13 V... +30 V(DC), output current (max.): 1 A (50 °C, 24 V), protection circuit: short circuit and over temperature protection with output switch off
CAN:	
CAN controller:	SAB80C515C
CAN interface:	differential, electrically isolated, 1 Mbit/s (10 m), 500 kBit/s (80 m), ISO11898
Protocol	CANopen

General:		
Ambient temperature:	0...50 °C, -20...+70 °C (extended temp. range)	
Module operating voltage $U_s$ :	+18 V ...30 V(DC)	
Operating current:	typ. 80 mA	
Case dimensions:	25 mm x 79 mm x 91 mm, DIN-EN carrier rail m.	
Order information:		
Designation		Order no.
CAN-CBM-DIO8	CANbloc-Mini module, 8 digital in/outputs 24 V/1A, CANopen	C.2830.02
CAN-CBM-DIO8-T	as C.2830.02 but -20...+70 °C	C.2830.05
CAN-CBM-Cable	manufactured CAN cable for CBM modules, length: 0.3 m, Combicon to DSUB-9 male	C.1323.03
CAN-CBM-ME	English user's manual	C.2830.21