



Control Board MRES-22

Identification - Coding

Description

This module is meant to be used with the MODULR® Network and features 16 parallel inputs and 16 parallel binary static outputs, all individually LED indicated and protected.

Layout

Mountable on DIN rail.

The module number in the MODULR® Network (0 to 15) is set by the switches 1-4 (on =1).

The baud rate on the network is set by the switches 5-7 (see below).

Switch 8 defines the state of the outputs after a break command (MRUC software stopped):

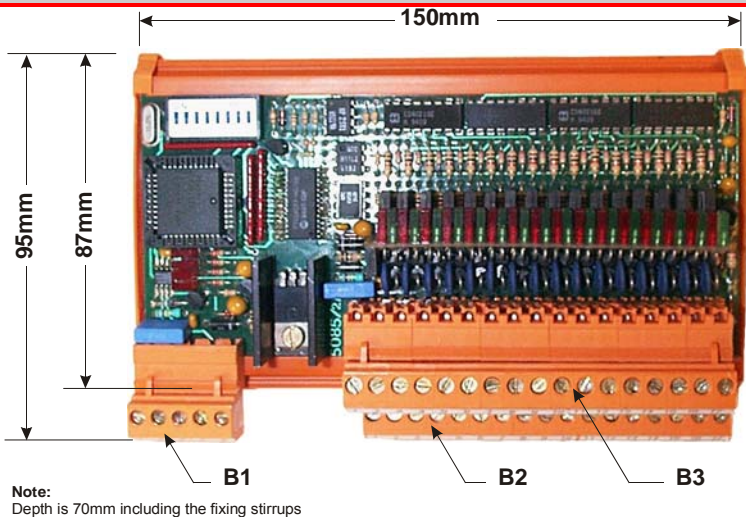
- Off position: The outputs remain at the last level.
- On Position: The inputs are set to 0.

Network baud rate switch settings & maximum cable length

sw 5	0	0	0	0	1	1	1	1
sw 6	0	0	1	1	0	0	1	1
sw 7	0	1	0	1	0	1	0	1
Baud rate	346	86.5	173	21.6	250	43.2	125	691
Cable length	100	400	200	1500	130	800	270	50

Note: Cable length is between end modules.
The first column shows the typical setting.

Dimensions



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Characteristics	Symbol	Unit	
Network power supply		V	24 VDC (21 to 29 V including ripple)
I/O power supply	Ucc	V	24 V by network, 24 to 48 V if external
Current consumption	Io	mA	50 mA
Protected against polarity reversal	-		Yes
Operating Temperature	T	°C	-25° to 70°C
Protection Degree	IP	/	65
Weight	M	g	280 grams
Maximum permanent current	Is		250 mA
Maximum voltage drop	Ud		1.5 V
Output Logical level "0"	"0"s		0 µA
Output Logical level "1"	"1"s		Ucc-Ud
Input impedance	Ze		10 kΩ
Input Logical level "0"	"0"e		0 to 10 V
Input Logical level "1"	"1"e		15 V @ Ucc

Connections

B1 Terminal	Assignment
1	Network power 0 V
2	CAN L
3	Shield
4	CAN H
5	Network power voltage

B2 Terminal	Assignment
1	+Ucc power
2	Input 15
3	Input 14
4	Input 13
5	Input 12
6	Input 11
7	Input 10
8	Input 9
9	Input 8
10	Input 7
11	Input 6
12	Input 5
13	Input 4
14	Input 3
15	Input 2
16	Input 1
17	Input 0

B3 Terminal	Assignment
1	0 V power
2	Output 15
3	Output 14
4	Output 13
5	Output 12
6	Output 11
7	Output 10
8	Output 9
9	Output 8
10	Output 7
11	Output 6
12	Output 5
13	Output 4
14	Output 3
15	Output 2
16	Output 1
17	Output 0