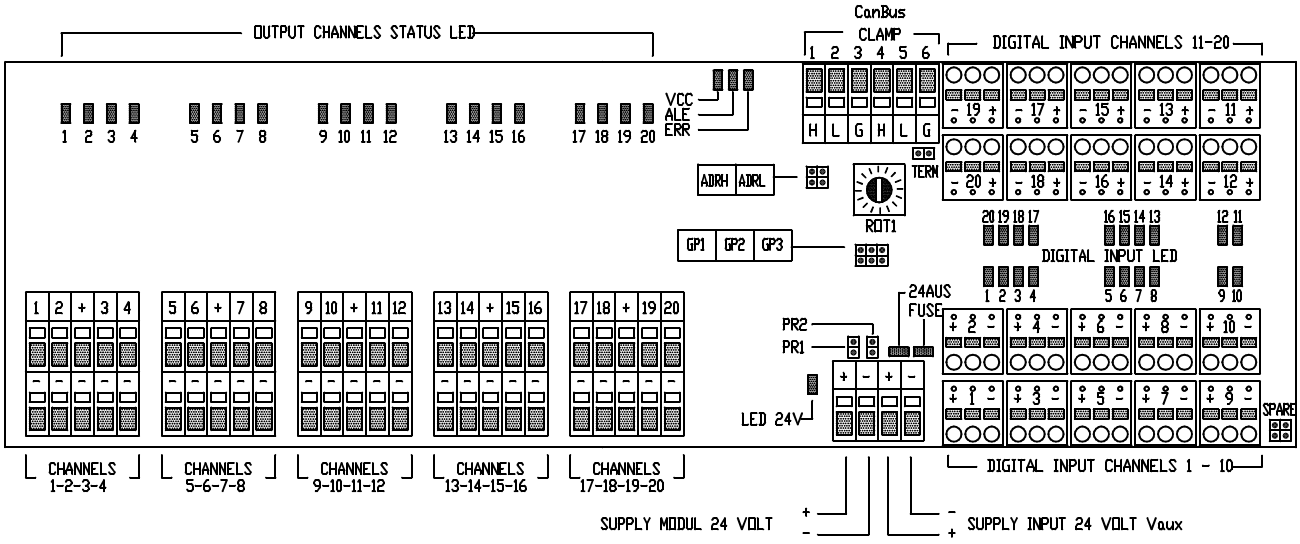
MITROL® s.r.l.

R.T. 124021 rev.00

30.05.2024

- Board setting note -

- BOARD CDB2020.7X1 -



Jumper setting:

GP3 = open

Tecnical Caracteristic

- Module supply and input supply 18-36 volt
- Vpwr power supply 18-36 volt
- Module current supply 234 mA max 300 mA
- Digital output current , nominal 2A at 24 Vpwr
- Input resistence of every channel 4700 ohm.
- Logic "0" Vin less then 5 volt, logic "1" great then 15 volt.
- Supply 24 Vin on input digital channel protect with inner thermal fuse, total current 1.5 A.
- Working temperature 0 - 55 °C

Wiring limitation

Refer to RT111055 for CanBus connector cabling

Layout Clamps CanBus

PIN	SEGNAL	DESCRIPTION
1,4	H	CanH
2,5	L	CanL
3,6	G	CanG

CanBus termination

close TERM if the board is at the end of the line
DEFAULT open

Board address configuration

Jumper		Rotary switch ROT1														
ADRH	ADRL	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
open	open	-	-	2	3	4	5	6	7	8	9	10	11	12	13	14	15
open	close	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
close	open	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
close	close	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63

Baud-rate CanBus

GP2	GP1	speed
open	open	500 Kbps (default)
open	close	1 Mbps
close	open	250 Kbps
close	close	125 Kbps

Diagnostic led

5V	on	5 volt module ok	ERR	blk	module error
24V	on	24 volt ok	ALE	blk	cpu running
24AUS	on	24 volt AUS ok	FUSE	on	thermal fuse ok

Module supply e input supply

PR1	PR2	
open	open	different (default)
close	close	connected

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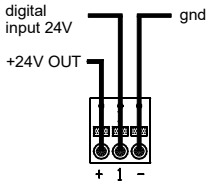
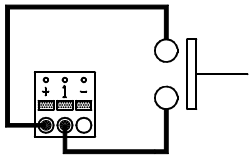
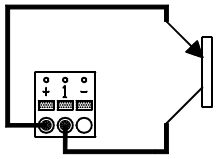
EXAMPLE OF CONNECTION DIGITAL INPUT



layout connector



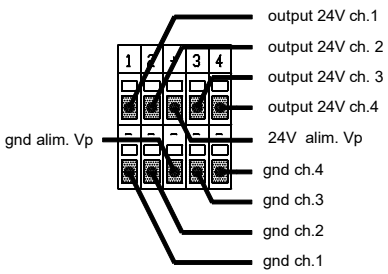
push button



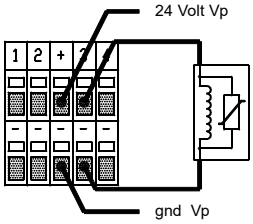
transistor

- Supply digital input 24 volt (18-36 volt)
- Current into every input ch. 5 mAat 24Vin
- Logic level "0" Vin below 5 volt
- Logic level "1" Vin great 15 volt
- Total current 1.5A to +24V OUT

EXAMPLE OF CONNECTION DIGITAL OUTPUT



layout connector



relay

- Supply digital output Vp 24 volt (18-36 volt)
- Current source from every ch. 2 A at 24 volt
- Protection over current at 2.5 A +/- 200 mA
- Active protection again short-circuit
- Active protection again over current

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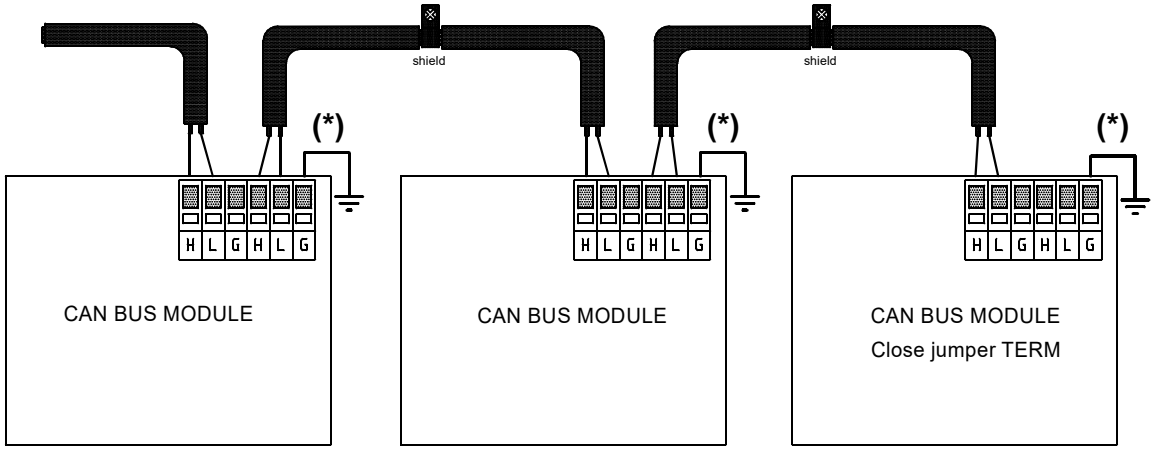
EXAMPLE OF 2 WIRES CANBUS MODULES CONNECTION
ONLY FOR REPLACE OLD MODULES (MODULES WITH WHITE CIRCLE OR WHITE SQUARE)



(*) CONNECT TO EARTH

EXAMPLE OF 3 WIRES CANBUS MODULES CONNECTION
DEFAULT CONNECTION