10208/2/1 Relay output module (contacts, 10 channels)

Description

The relay output module 10208/2/1 has ten potential-free relay contact output channels to drive loads up to 70 W.
These loads may be resistive (e.g. lamps) or inductive (e.g. solenoids). For inductive loads, a suppression diode **must be mounted externally.** The outputs are not tested and may therefore ***not*** be used for fail-safe applications.
The maximum voltage on the relay contacts may be 36 Vdc to meet IEC 1010.

The outputs are also controlled by the watchdog. This means that the relays de-energize if the system shuts down and the watchdog switches off.

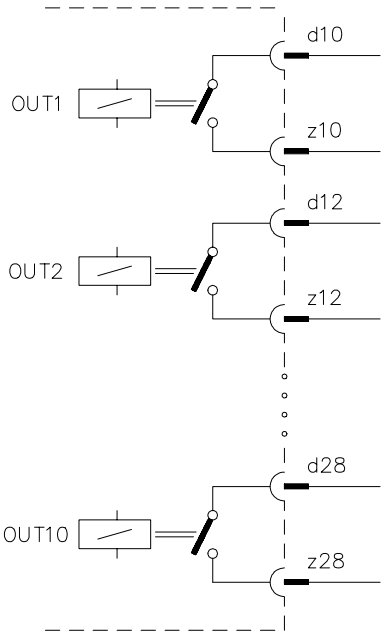
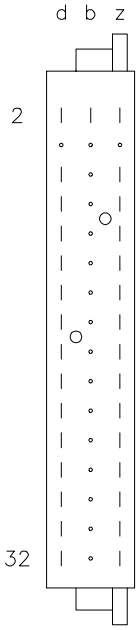


Figure 1 Schematic diagram for 10208/2/1 module

Pin allocation

The back view and pin allocation of the 10208/2/1 module connector are as follows:



d2	WDG	b2	GND	z2	VCC
d4	–			z4	–
d6				z6	
d8	Supply 24 Vdc			z8	Supply 0 Vdc
d10	Common 1			z10	Normally open 1
d12	Common 2			z12	Normally open 2
d14	Common 3			z14	Normally open 3
d16	Common 4			z16	Normally open 4
d18	Common 5			z18	Normally open 5
d20	Common 6			z20	Normally open 6
d22	Common 7			z22	Normally open 7
d24	Common 8			z24	Normally open 8
d26	Common 9			z26	Normally open 9
d28	Common 10			z28	Normally open 10
d30				z30	
d32				z32	

Connection examples

The figures below show a number of connection examples for the relay output module 10208/2/1.

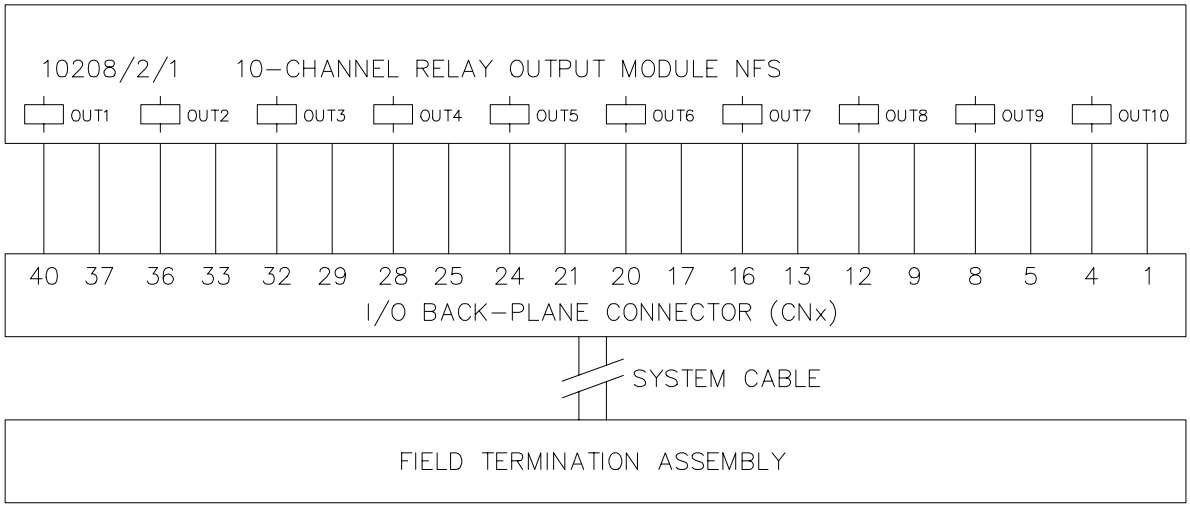


Figure 2 Connection example of 10208/2/1 module to FTA for both non-redundant and redundant I/O configurations

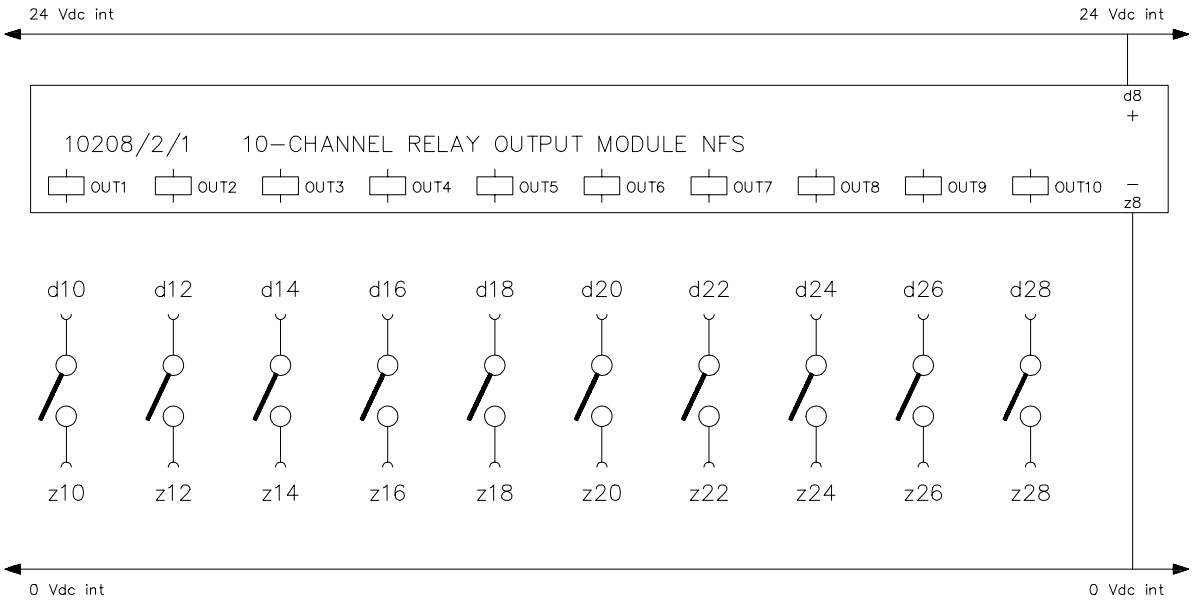


Figure 3 I/O connection example for 10208/2/1 module for non-redundant I/O configurations

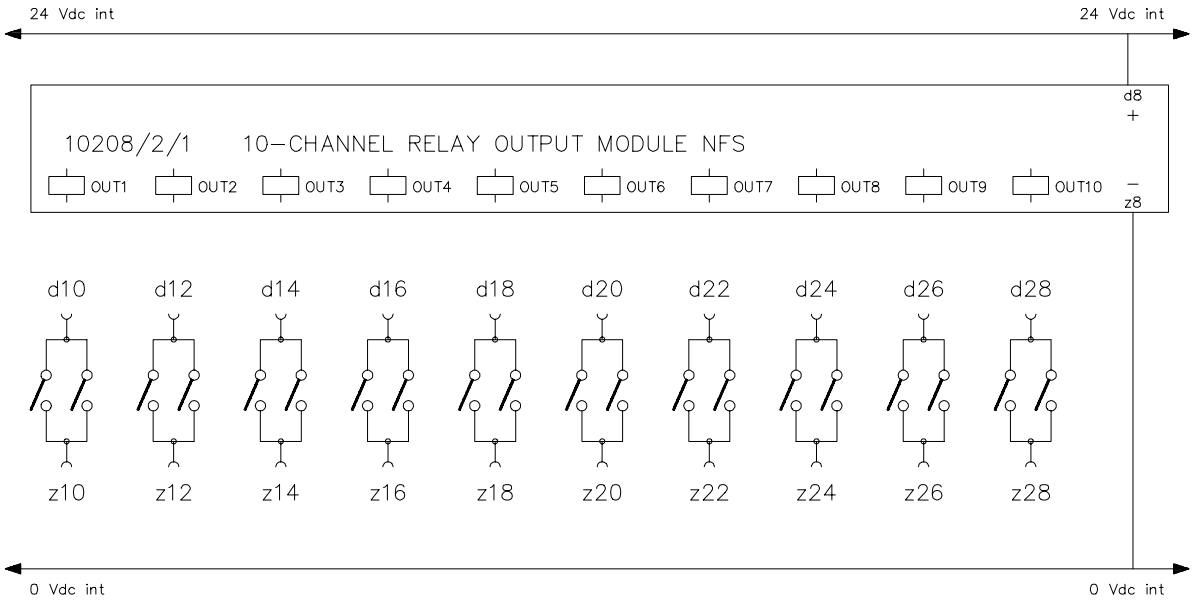


Figure 4 I/O connection example for 10208/2/1 module for redundant I/O configurations

Technical data

The 10208/2/1 module has the following specifications:

General	Type number:	10208/2/1 11800
	Approvals:	CE, TÜV, UL
	Software versions:	≥ 3.00
	Space requirements:	4 TE, 3 HE (= 4 HP, 3U)
Power	Power requirements:	5 Vdc 25 mA 24 Vdc 120 mA
Output	Number of output channels:	10
	Output specification:	relay contact
	Maximum current:	2 A
	Maximum voltage:	30 Vac / 36 Vdc – IEC 1010 (1990), overvoltage category 3, Table D.12
	Maximum switched power:	100 W / 1000 VA
	Contact material:	gold flush silver-cadmium oxide
	WDG input current	4 mA
Key coding	(See 'Key coding' data sheet)	
	Module code:	
	– holes	A9, C17
	Rack code:	
	– large pins	A9, C17

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