

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

HONEYWELL FSC

10209/2/1

16-CHANNEL DIGITAL OUTPUT MODULE

Applicable product family: Honeywell FSC safety controller I/O

OFFICIAL SOURCE

10209-2-1.pdf

The following pages are selected from the supplied manufacturer document and retain their original page content.



10209/2/1

Digital output module (24 Vdc, 0.1 A, 16 channels)

Description

The digital output module 10209/2/1 has sixteen 24 Vdc, 100 mA output channels to drive loads up to 2.5 W. These loads may be resistive (e.g. LEDs) or inductive (e.g. relays). For inductive loads, a suppression diode is included on each output. The outputs are not tested and may therefore **not** be used for fail-safe applications.

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

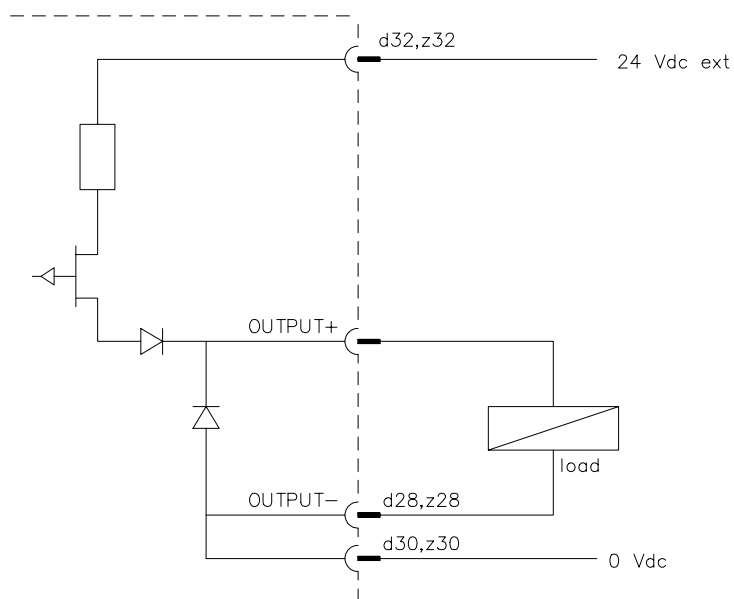
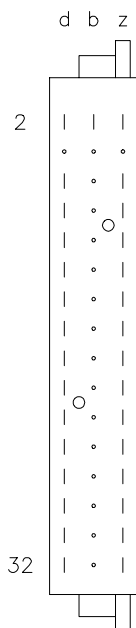


Figure 1 Schematic diagram for connection of one output to the 10209/2/1 module

Pin allocation

The back view and pin allocation of the 10209/2/1 module connector are as follows:



d2	WDG	b2	GND	z2	VCC
d4	—	b4	—	z4	—
d6	—	b6	—	z6	—
d8	—	b8	—	z8	—
d10	—	b10	—	z10	—
d12	OUT 1	b12	—	z12	OUT 2
d14	OUT 3	b14	—	z14	OUT 4
d16	OUT 5	b16	—	z16	OUT 6
d18	OUT 7	b18	—	z18	OUT 8
d20	OUT 9	b20	—	z20	OUT 10
d22	OUT 11	b22	—	z22	OUT 12
d24	OUT 13	b24	—	z24	OUT 14
d26	OUT 15	b26	—	z26	OUT 16
d28	0 Vdc out	b28	—	z28	0 Vdc out
d30	Supply 0 Vdc	b30	—	z30	Supply 0 Vdc
d32	Supply 24 Vdc	b32	—	z32	Supply 24 Vdc

Connections examples

The figures below show a number of connection examples for the digital output module 10209/2/1.

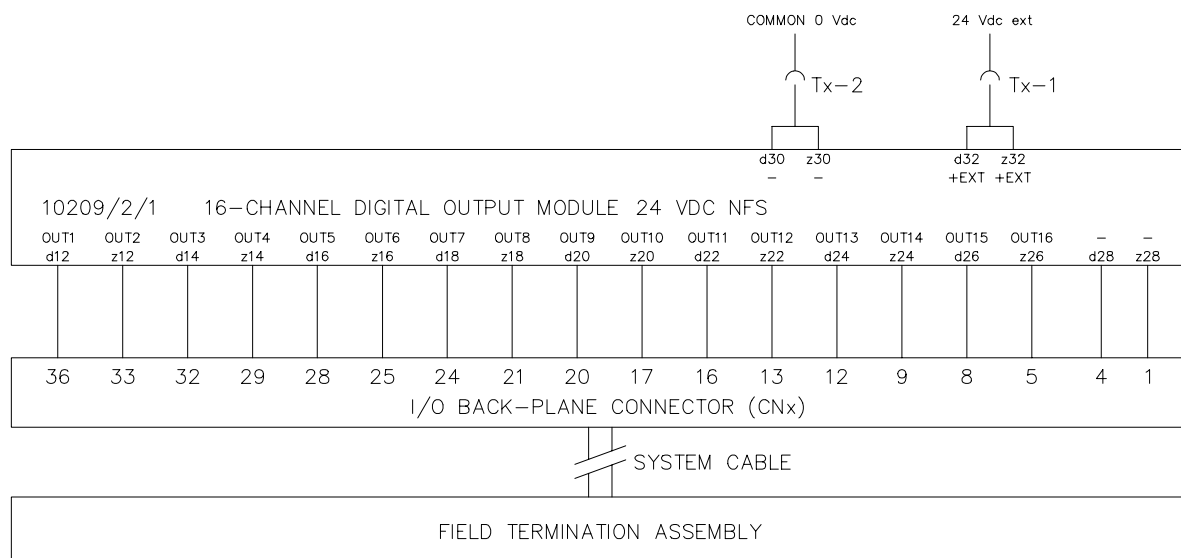


Figure 2 Connection example of 10209/2/1 module to FTA for both non-redundant and redundant I/O configurations

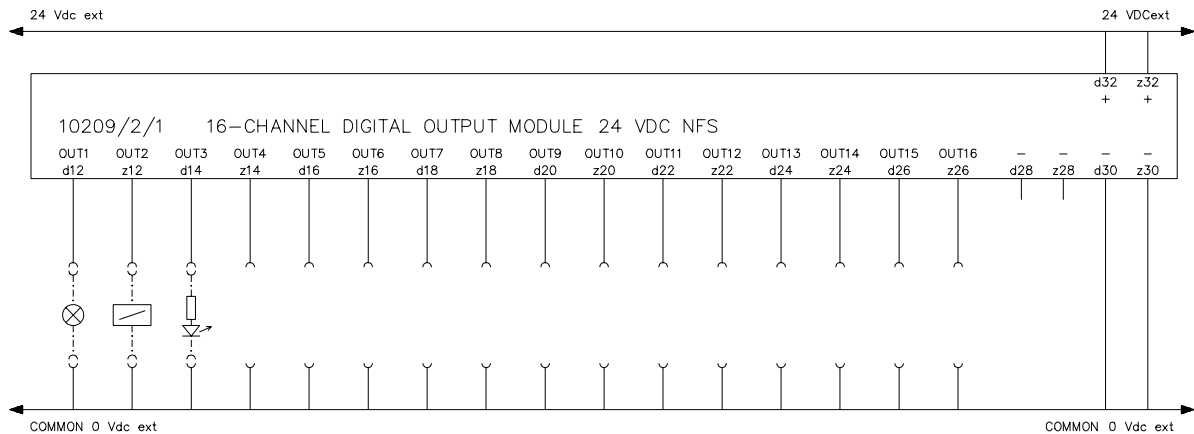


Figure 3 I/O connection example for 10209/2/1 module for non-redundant I/O configurations

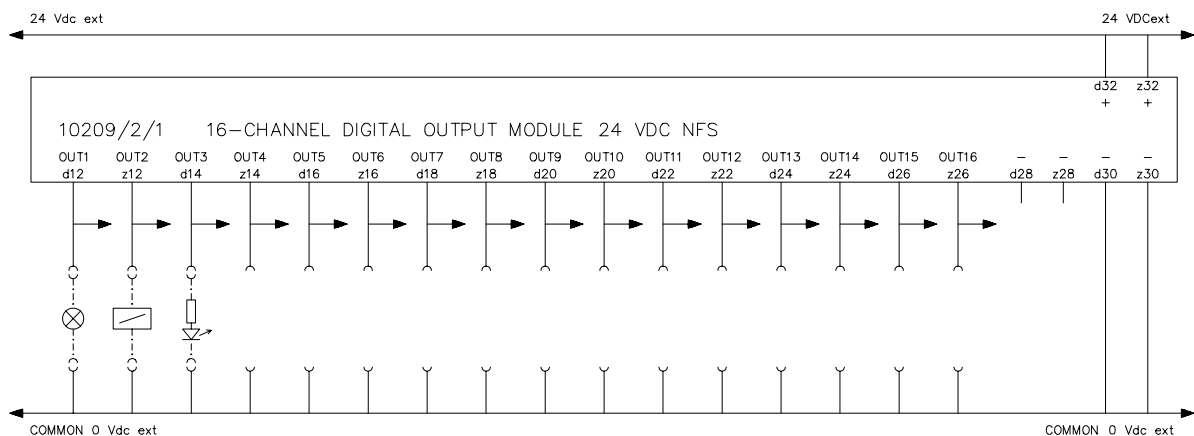


Figure 4 I/O connection example for 10209/2/1 module for redundant I/O configurations



Technical data

The 10209/2/1 module has the following specifications:

General	Type number:	10209/2/1 11900
	Approvals:	CE, TÜV, UL
	Software versions:	≥ 3.00
	Space requirements:	4 TE, 3 HE (= 4 HP, 3U)
Power	Power requirements:	5 Vdc 35 mA 24 Vdc 85 mA (without output load)
Output	Number of output channels:	16
	Output specification:	24 Vdc solid-state source, short-circuit proof
	Maximum current:	100 mA (see 'FSC output modules' data sheet)
	Maximum lamp load:	50 mA (1.2 W)
	Maximum load capacitance:	1 µF
	Voltage drop:	< 1.2 Vdc at 100 mA
	Off current:	< 0.1 mA
	WDG input current:	4 mA
Key coding	(See 'Key coding' data sheet)	
	Module code:	
	– holes	A9, C21
	Rack code:	
	– large pins	A9, C21

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