

User's Manual

24-Relay Output Board

Z S - 7 2 1 1 P

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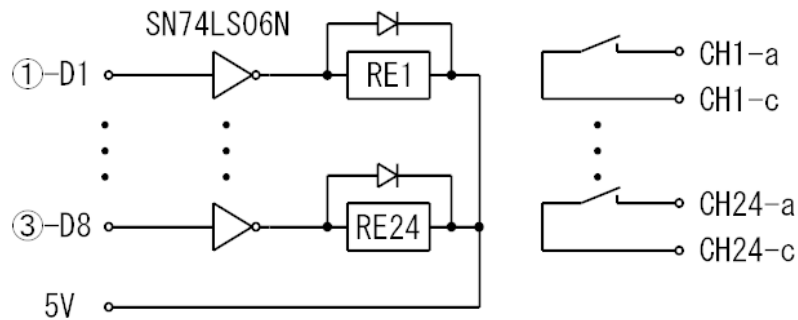
<http://www.zenisu.co.jp>

1. Outline

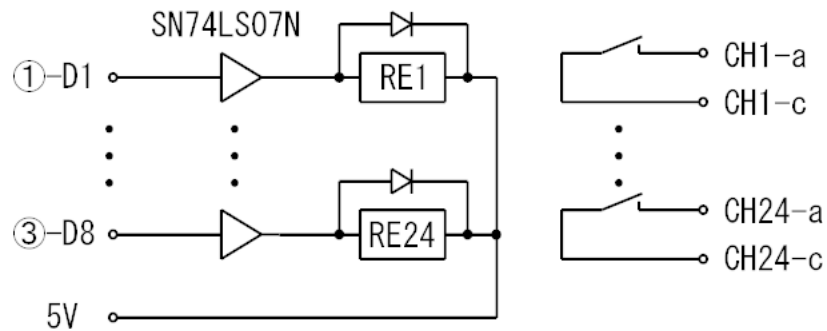
ZS-7211P is possible to be turn ON/OFF 24-relays according to the input signal. Relay coil voltage DC5V type can be used directly connected to ZS related adapter of our products. When the power is turned on, there is a circuit that isolates the coil voltage while input level is indeterminate. It is about 100ms.

The model is selected in XYZ of ZS-7211P, XYZ as follows.

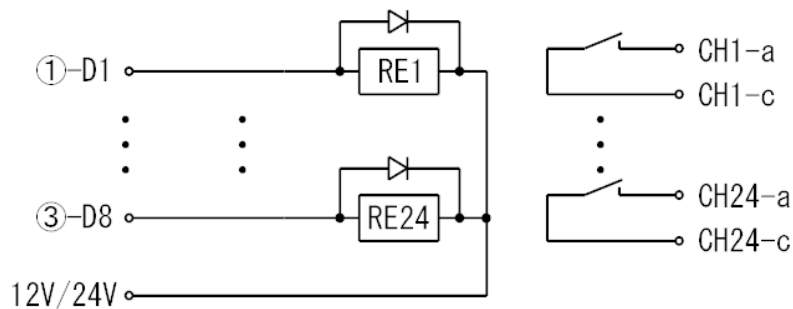
2. Circuit



TTL Positive logic operation type
(ZS-7211P-P11, ZS-7211P-P31)



TTL Negative logic operation type
(ZS-7211P-N11, ZS-7211P-N31)



Direct drive circuit type
(12Vタイプ ZS-7211P-N12, ZS-7211P-N32)
(24Vタイプ ZS-7211P-N13, ZS-7211P-N33)

3. Specification

(1) Circuit number	:24-circuits
(2) Relay drive method	
TTL level 5V	:ZS-7211P-P11, -P31, -N11, -N31
Direct drive 12V	:ZS-7211P-N12, -N32
Direct drive 24V	:ZS-7211P-N13, -N33
(3) Power supply	:Relay drive voltage current (specified by model)
	:5V about 850mA, 12V about 300mA, 24V about 210mA
(4) Relay	:ATN series
(5) Relay contact capacity	:0.5A AC125V, 1A DC30V
(6) Contact resistance	:60mΩ or less
(7) Connector	:Specified by model
	Input side: FAP-5001-1204-OBF
	Out side: FAP-5001-1204-OBF or 57LE-40500
(8) Size	:100mm × 150mm × 30mm or less

4. Model of product

ZS-7211P specifies TTL positive/negative logic, supply voltage, and used connector as the last three letters.

“ZS-7211P-XYZ”

X: “P” is TTL positive logic operation.

 signal input voltage 2.4V or more, less than 5V Relay ON.

X: “N” is TTL negative logic operation.

 Signal input voltage less than 0.8V Relay ON.

Note) Relay coil voltage is only 5V type.

Y: “1” is used connector FAP-5001-1204 for output side.

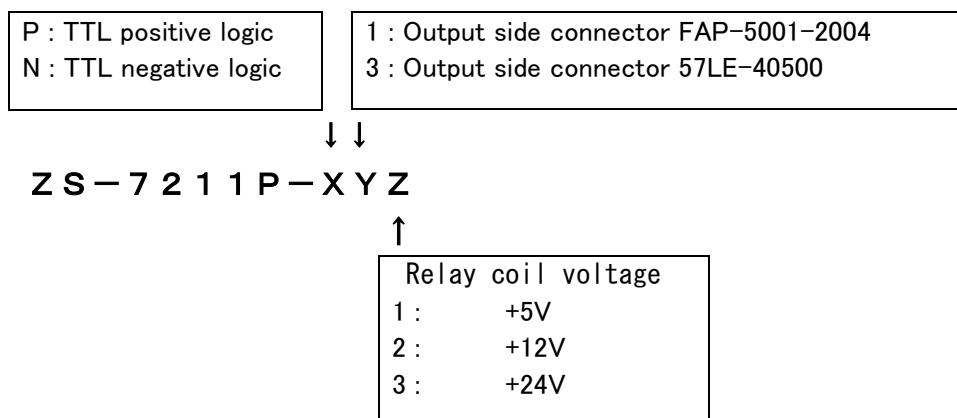
Y: “3” is used connector 57LE-40500 for output side.

Z: “1” is relay coil voltage DC5V.

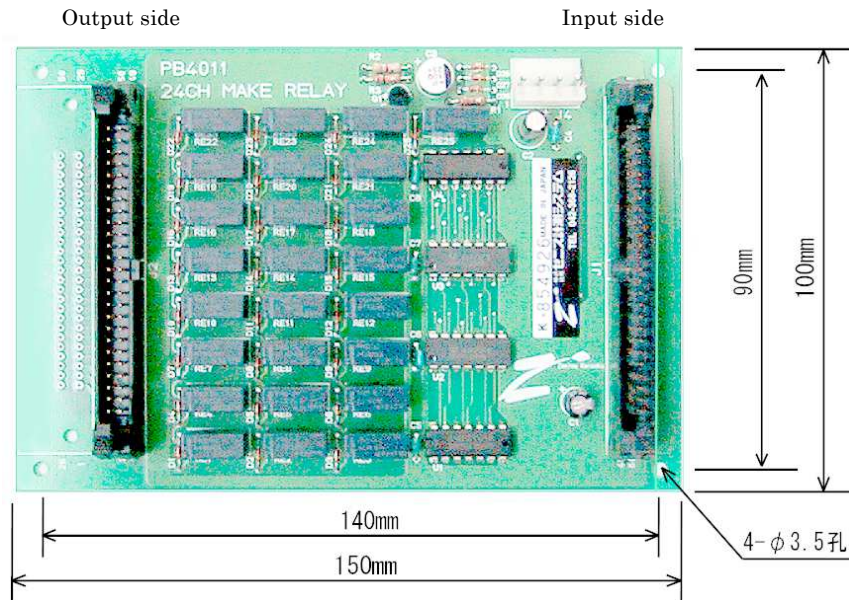
Z: “2” is relay coil voltage DC12V, Direct drive.

Z: “3” is relay coil voltage DC24V, direct drive.

ZS-7211P-P11 and ZS-7211P-N11 are standard model.



5. Appearance



ZS-7211P-P11

6. Connector

J1 is the digital relay drive signal input side, J2 or J3 is the relay contact output side.

Note) ① to ③ correspond to Byte No. of ZS-6120B series and ZS-6220P series.

6.1 J1 Input connector FAP-5001-1204-OBF

Relay	SIGNAL	PIN	SIGNAL	Relay	
Relay drive CH1	①	D1	1 2	D1	Relay drive CH9
Relay drive CH2		D2	3 4	D2	Relay drive CH10
Relay drive CH3		D3	5 6	D3	Relay drive CH11
Relay drive CH4		D4	7 8	D4	Relay drive CH12
Relay drive CH5		D5	9 10	D5	Relay drive CH13
Relay drive CH6		D6	11 12	D6	Relay drive CH14
Relay drive CH7		D7	13 14	D7	Relay drive CH15
Relay drive CH8		D8	15 16	D8	Relay drive CH16
Relay drive CH17	③	D1	17 18	②	
Relay drive CH18		D2	19 20		
Relay drive CH19		D3	21 22		
Relay drive CH20		D4	23 24		
Relay drive CH21		D5	25 26		
Relay drive CH22		D6	27 28		
Relay drive CH23		D7	29 30		
Relay drive CH24		D8	31 32		
		33 34	+V5	+5V	
		35 36	+V5		
		37 38	+V5		
		39 40	+V5		
		41 42	GND	GND	
		43 44	GND		
		45 46	GND		
		47 48	GND		
		49 50	GND		

6. 2 J2 connector FAP-5001-1204-OBF

Relay	SIGNAL	PIN		SIGNAL	Relay
Relay contact signal	CH1-a	1	2	CH1-c	Relay contact signal
Relay contact signal	CH2	3	4	CH2	Relay contact signal
Relay contact signal	CH3	5	6	CH3	Relay contact signal
Relay contact signal	CH4	7	8	CH4	Relay contact signal
Relay contact signal	CH5	9	10	CH5	Relay contact signal
Relay contact signal	CH6	11	12	CH6	Relay contact signal
Relay contact signal	CH7	13	14	CH7	Relay contact signal
Relay contact signal	CH8	15	16	CH8	Relay contact signal
Relay contact signal	CH9	17	18	CH9	Relay contact signal
Relay contact signal	CH10	19	20	CH10	Relay contact signal
Relay contact signal	CH11	21	22	CH11	Relay contact signal
Relay contact signal	CH12	23	24	CH12	Relay contact signal
Relay contact signal	CH13	25	26	CH13	Relay contact signal
Relay contact signal	CH14	27	28	CH14	Relay contact signal
Relay contact signal	CH15	29	30	CH15	Relay contact signal
Relay contact signal	CH16	31	32	CH16	Relay contact signal
Relay contact signal	CH17	33	34	CH17	Relay contact signal
Relay contact signal	CH18	35	36	CH18	Relay contact signal
Relay contact signal	CH19	37	38	CH19	Relay contact signal
Relay contact signal	CH20	39	40	CH20	Relay contact signal
Relay contact signal	CH21	41	42	CH21	Relay contact signal
Relay contact signal	CH22	43	44	CH22	Relay contact signal
Relay contact signal	CH23	45	46	CH23	Relay contact signal
Relay contact signal	CH24	47	48	CH24	Relay contact signal
		49	50	GND	

6.3 J3 connector 57LE-40500-7700(D3)

Relay	SIGNAL	PIN		SIGNAL	Relay
Relay contact signal	CH1-a	1	26	CH1-c	Relay contact signal
Relay contact signal	CH2	2	27	CH2	Relay contact signal
Relay contact signal	CH3	3	28	CH3	Relay contact signal
Relay contact signal	CH4	4	29	CH4	Relay contact signal
Relay contact signal	CH5	5	30	CH5	Relay contact signal
Relay contact signal	CH6	6	31	CH6	Relay contact signal
Relay contact signal	CH7	7	32	CH7	Relay contact signal
Relay contact signal	CH8	8	33	CH8	Relay contact signal
Relay contact signal	CH9	9	34	CH9	Relay contact signal
Relay contact signal	CH10	10	35	CH10	Relay contact signal
Relay contact signal	CH11	11	36	CH11	Relay contact signal
Relay contact signal	CH12	12	37	CH12	Relay contact signal
Relay contact signal	CH13	13	38	CH13	Relay contact signal
Relay contact signal	CH14	14	39	CH14	Relay contact signal
Relay contact signal	CH15	15	40	CH15	Relay contact signal
Relay contact signal	CH16	16	41	CH16	Relay contact signal
Relay contact signal	CH17	17	42	CH17	Relay contact signal
Relay contact signal	CH18	18	43	CH18	Relay contact signal
Relay contact signal	CH19	19	44	CH19	Relay contact signal
Relay contact signal	CH20	20	45	CH20	Relay contact signal
Relay contact signal	CH21	21	46	CH21	Relay contact signal
Relay contact signal	CH22	22	47	CH22	Relay contact signal
Relay contact signal	CH23	23	48	CH23	Relay contact signal
Relay contact signal	CH24	24	49	CH24	Relay contact signal
		25	50	GND	