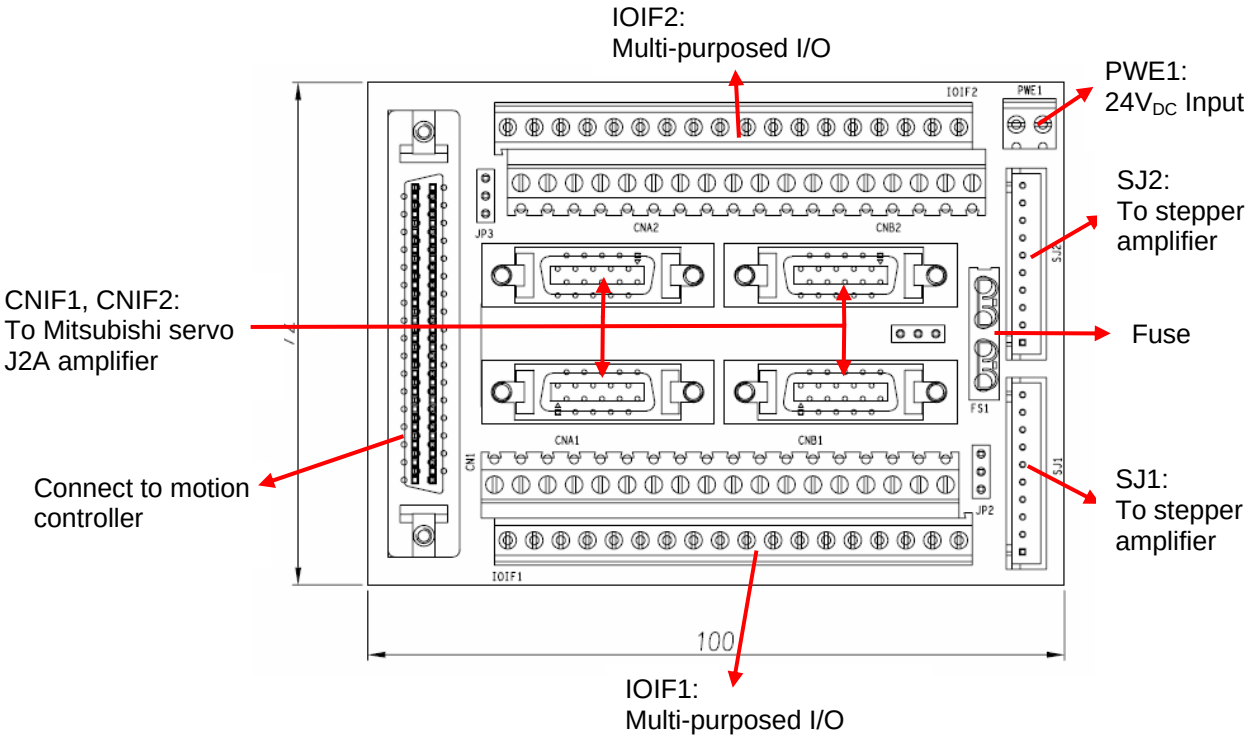
Part No: 50-11140-1000

DIN-68M-J2A User Guide

Notice

The DIN-68M-J2A is used for wiring between **Mitsubishi J2A** series servo drivers / stepper with pulse trains input driver and **ADLINK** c**PCI-8168, PCI-8102** motion controller card ONLY. Never use this terminal board with any other servo driver or cards.
P/N: 50-11140-1000 Rev.1.0



Note:

1. **Servo & Stepper:** The DIN-68M-J2A provides 2 connection methods for each axis: CNA1~2 & CNB1~2 connectors for Mitsubishi J2A series servo drivers, and a SJ connector for stepping drivers. DO NOT use both connectors at the same time.
2. **CNIF1 or CNIF2 cables:** Two pin-to-pin 20-PIN cables are required for connection between the CNA1~2(CNB1~2) and the Mitsubishi J2A driver. It is available from ADLINK, or users may contact the local dealer or distributor to get cable information.
3. **JP1:** Fuse selection. Pin 1-2 short means the board is protected by fuse. Pin 2-3 short means the board is not protected by fuse.
4. **Fuse:** The fuse protects from damaging internal circuit. This fuse can sustain 2A current. Users can buy it in local area when the fuse is burnt out.

● PIN Assignments:

1. CNA1~2/CNB1~2 (Mitsubishi AC Servo Driver J2A)

CNA1~CNA2

No.	Name	I/O	Function	No.	Name	I/O	Function
1	IGND	--	Isolated Ground	2	DIR+	O	Direction Signal (+)
3	OUT+	O	Pulse Signal (+)	4	X	--	
5	EZ+	I	Encoder Z-phase (+)	6	EA+	I	Encoder A-phase (+)
7	EB+	I	Encoder B-phase (+)	8	ERC	O	Dev. ctr, clr. Signal
9	X	--		10	IGND	--	Isolated Ground
11	X	--		12	DIR-	O	Direction Signal (-)
13	OUT-	O	Pulse Signal (-)	14	X	--	
15	EZ-	I	Encoder Z-phase (-)	16	EA-	I	Encoder A-phase (-)
17	EB-	I	Encoder B-phase (-)	18	INP	I	In-position Signal
19	RDY	I	Servo Ready Signal	20	IGND	--	Isolated Ground

CNB1~CNB2

No.	Name	I/O	Function	No.	Name	I/O	Function
1	IGND	--	Isolated Ground	2	VC	I	Analog Speed Command
3	+24V	O	Servo Internal Voltage output	4	DO1	O	ABS bit 0

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5	SVON	O	Servo ON	6	TLC	I	Limiting Torque
7	SP2	I	Speed Selection 2	8	ABSM	I	ABS transfer mode
9	ABSR	I	ABS request	10	IGND	--	Isolated Ground
11	P15R	--	+15 VDC power supply	12	TLA	I	Analog Torque Limit
13	+24V	O	Servo Internal Voltage output	14	RES	I	Reset Signal
15	EMG	--	Internal EMG Signal	16	IGND	--	Isolated Ground
17	IGND	--	Isolated Ground	18	ALM	I	Alarm Signal
19	ZSP	I	Zero Speed	20	IGND	--	Isolated Ground

2. IOIF1/IOIF2 (External Motion Input Signal Interface)

IOIF1

No.	Name	I/O	Function	No.	Name	I/O	Function
1	PEL	I	Positive Limit (+)	19	VC	I	Analog Speed Command
2	MEL	I	Positive Limit (-)	20	DO1	O	ABS bit 0
3	ORG	I	Origin Signal	21	TLC	I	Limiting Torque
4	EMG	--	Internal EMG Signal	22	SP2	I	Speed Selection 2
5	LTC/SD /CS0/CLR0	I	Composite Function (Default: LTC)	23	ABSM	I	ABS transfer mode
6	PA+_ISO	I	Manual Pulser Input A	24	ABSR	I	ABS request
7	PA-_ISO	I	Manual Pulser Input A	25	P15R	--	+15 VDC power supply
8	CMP0	O	TTL Compare Output 0	26	TLA	I	Analog Torque Limit
9	DIN0	I	Digital Input 0	27	RES	I	Reset Signal
10	DIN1	I	Digital Input 1	28	ZSP	I	Zero Speed
11	DOUT0	O	Digital Output 0, SVO RST	29	E_EMG0	I	External EMG Signal 0
12	+5V	O	Isolated +5V Output	30	IGND	--	Isolated Ground
13	I24V	O	Voltage output (With Fuse)	31	IGND	--	Isolated Ground
14	I24V	O	Voltage output (With Fuse)	32	IGND	--	Isolated Ground
15	I24V	O	Voltage output (With Fuse)	33	IGND	--	Isolated Ground
16	E24V	O	Voltage output (Without Fuse)	34	IGND	--	Isolated Ground
17	E24V	O	Voltage output (Without Fuse)	35	IGND	--	Isolated Ground
18	E24V	O	Voltage output (Without Fuse)	36	IGND	--	Isolated Ground

IOIF2

No.	Name	I/O	Function	No.	Name	I/O	Function
1	PEL	I	Positive Limit (+)	19	VC	I	Analog Speed Command
2	MEL	I	Positive Limit (-)	20	DO1	O	ABS bit 0
3	ORG	I	Origin Signal	21	TLC	I	Limiting Torque
4	EMG	--	Internal EMG Signal	22	SP2	I	Speed Selection 2
5	LTC/SD /CS0/CLR0	I	Composite Function (Default: LTC)	23	ABSM	I	ABS transfer mode
6	PB+_ISO	I	Manual Pulser Input B	24	ABSR	I	ABS request
7	PB-_ISO	I	Manual Pulser Input B	25	P15R	--	+15 VDC power supply
8	CMP1	O	TTL Compare Output 1	26	TLA	I	Analog Torque Limit
9	DIN2	I	Digital Input 2	27	RES	I	Reset Signal
10	DIN3	I	Digital Input 3	28	ZSP	I	Zero Speed
11	DOUT1	O	Digital Output 1, SVO RST	29	E_EMG1	I	External EMG Signal 1
12	+5V	O	Isolated +5V Output	30	IGND	--	Isolated Ground
13	I24V	O	Voltage output (With Fuse)	31	IGND	--	Isolated Ground
14	I24V	O	Voltage output (With Fuse)	32	IGND	--	Isolated Ground
15	I24V	O	Voltage output (With Fuse)	33	IGND	--	Isolated Ground
16	E24V	O	Voltage output (Without Fuse)	34	IGND	--	Isolated Ground
17	E24V	O	Voltage output (Without Fuse)	35	IGND	--	Isolated Ground
18	E24V	O	Voltage output (Without Fuse)	36	IGND	--	Isolated Ground

3. SJ1/SJ2 (Stepping Motor Control Interface)

SJ1~SJ2

No.	Name	I/O	Function	No.	Name	I/O	Function
1	OUT+	O	Pulse Signal (+)	6	ALM	I	Servo Alarm
2	OUT-	O	Pulse Signal (-)	7	+5V	O	Voltage output
3	DIR+	O	Direction Signal (+)	8	SVON	O	Servo ON
4	DIR-	O	Direction Signal (-)	9	+5V	O	Voltage output
5	EZ+	I	Index Signal	10	IGND	--	Isolated Ground

4. PWE1 (External +24VDC Input Connector)

PWE1

No.	Name	I/O	Function
1	EX GND	--	External Power Supply Ground
2	EX +24V	I	External Power Supply Input (+24V DC+5%)

5. JP1 (Setting for fuse)



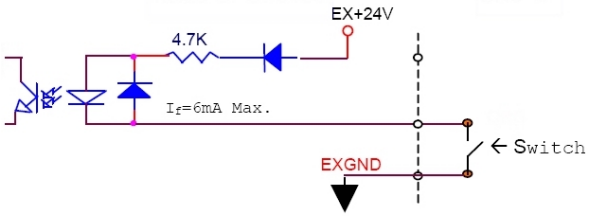
With fuse Without fuse(default)

Jumper

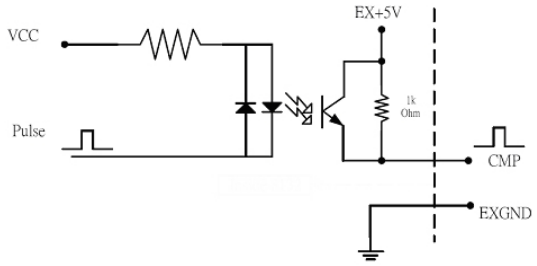
JP1	1-2：With Fuse		2-3：Without Fuse
JP2~JP3	1：EX_EMG	2：EMG	3：IGND

- Signal Connections of Interface Circuit

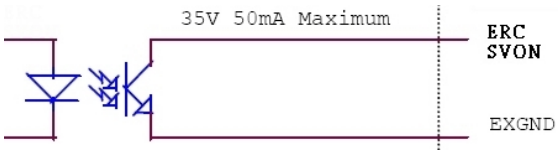
1. PEL、MEL、ORG 、INP、ALM、RDY



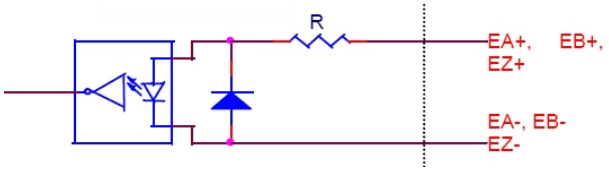
2. CMP



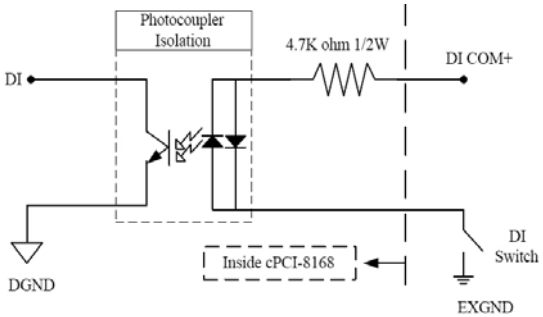
3. ERC、SVON



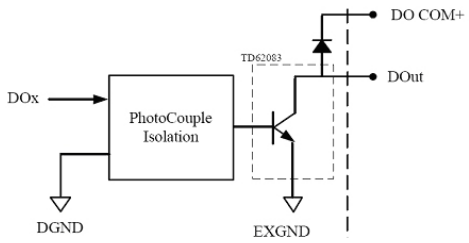
4. EA+、EB+、EZ+、EA-、EB-、EZ-



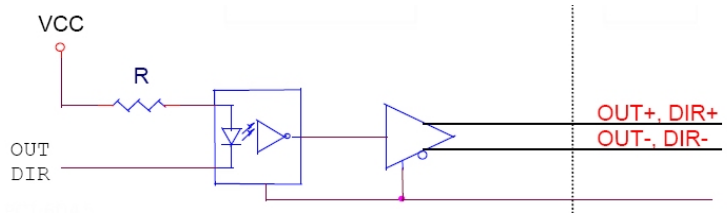
5. DIN、DI_COM



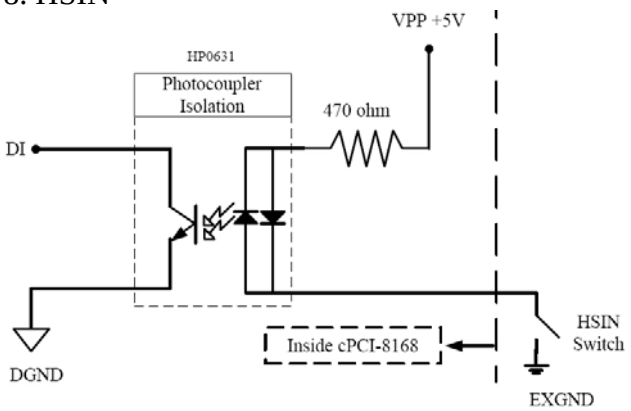
6. DOUT、DO_COM



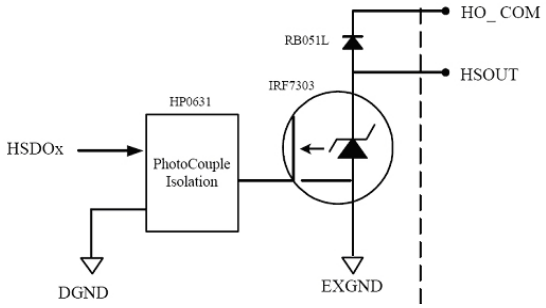
7. DIR+、OUT +、DIR-、OUT-



8. HSIN



9. HSOUT、HO_COM



Mechanical Dimensions:

