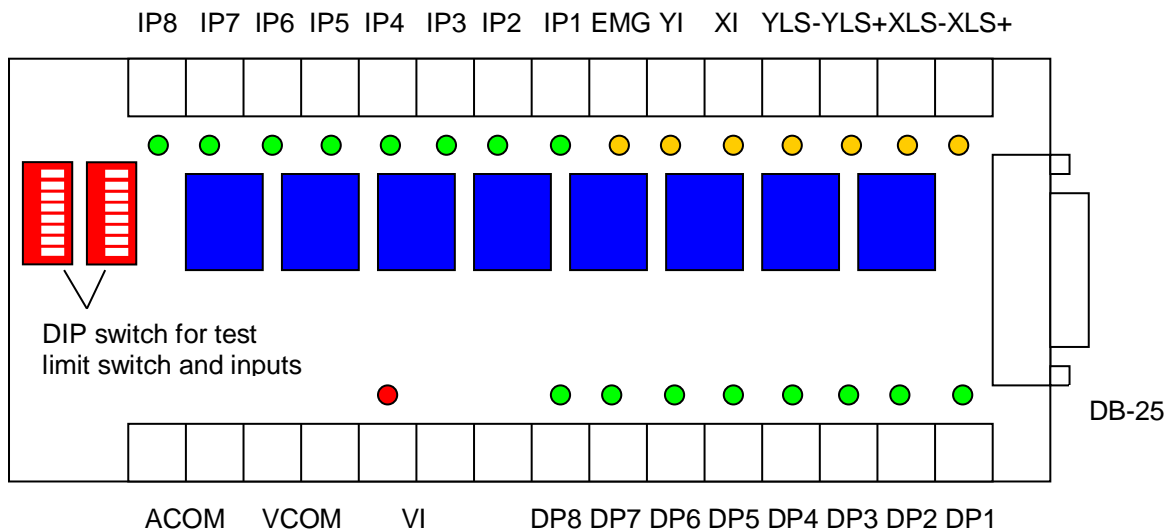
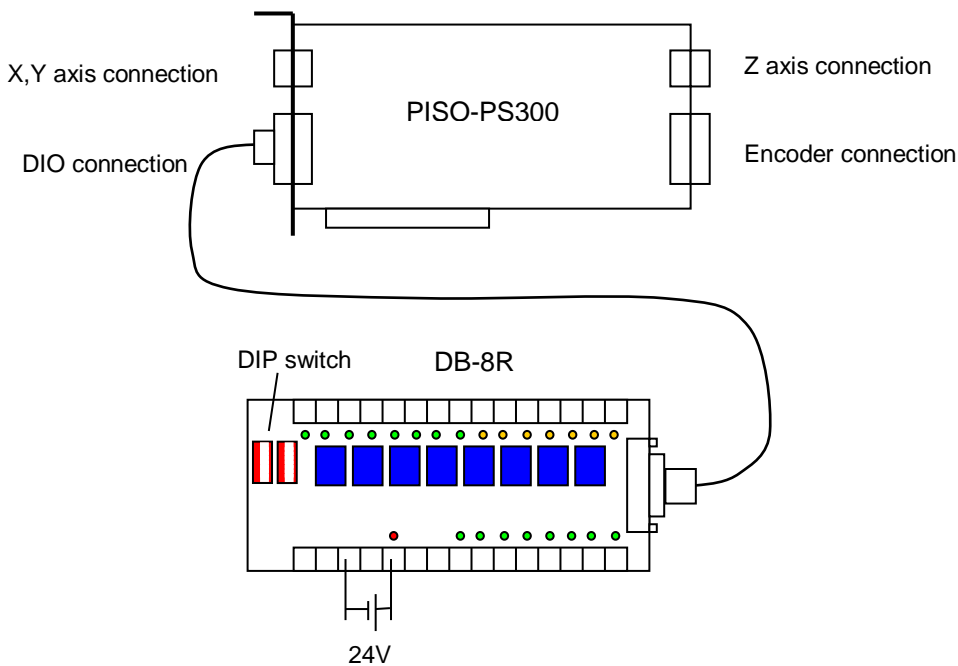


# 1. The DB-8R Wiring Terminal Board

The DB-8R board is the I/O connection board designed for PISO-PS300 and SERVO-300. It is also equipped with 8 form A relays to provide higher current switching capability. The board layout of DB-8R is as figure below:



The typical hardware connection of DB-8R is as the following diagram.



## **2. Signal Connection of DB-8R**

### 2-1. CN1 connector (D-Sub 25-pin Female Connector)

pin name	pin number	description
/XLS+	1	Positive switch of X axis, active low for N.O.
/XLS-	2	Negative limit switch of X axis, active low for N.O.
/YLS+	3	Positive limit switch of Y axis, active low for N.O.
/YLS-	4	Negative limit switch of Y axis, active low for N.O.
/XI	5	home index switch of X axis, active low for N.O.
/YI	6	home index switch of Y axis, active low for N.O.
/EMG	7	Emergency input, active low for N.O.
/IP1	8	digital input
/IP2	9	digital input
/IP3	10	digital input
/IP4	11	digital input
/IP5	12	digital input
/IP6	13	digital input
/IP7	14	digital input
/IP8	15	digital input
VEXT	16	external power (apply 12~24V)
/OP1	17	digital output
/OP2	18	digital output
/OP3	19	digital output
/OP4	20	digital output
/OP5	21	digital output
/OP6	22	digital output
/OP7	23	digital output
	24	No used
EXT_GND	25	external ground

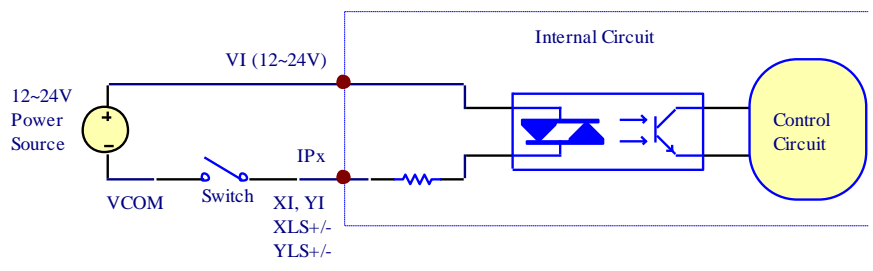
## 2-2. CN2 connector (Barrier Type 15-pin Screw Terminal)

pin name	pin number	description
/XLS+	1	Positive switch of X axis, active low for N.O.
/XLS-	2	Negative limit switch of X axis, active low for N.O.
/YLS+	3	Positive limit switch of Y axis, active low for N.O.
/YLS-	4	Negative limit switch of Y axis, active low for N.O.
/XI	5	home index switch of X axis, active low for N.O.
/YI	6	home index switch of Y axis, active low for N.O.
/EMG	7	Emergency input, active low for N.O.
/IP1	8	digital input
/IP2	9	digital input
/IP3	10	digital input
/IP4	11	digital input
/IP5	12	digital input
/IP6	13	digital input
/IP7	14	digital input
/IP8	15	digital input

## 2-3. CN3 connector (Barrier Type 15-pin Screw Terminal)

pin name	pin number	description
ACOM	1	COM of all relays
ACOM	2	COM of all relays
VCOM	3	external ground
VCOM	4	external ground
VI	5	external power (apply 12~24V)
VI	6	external power (apply 12~24V)
	7	No used
/OP8	8	N.O. of relay output
/OP7	9	N.O. of relay output
/OP6	10	N.O. of relay output
/OP5	11	N.O. of relay output
/OP4	12	N.O. of relay output
/OP3	13	N.O. of relay output
/OP2	14	N.O. of relay output
/OP1	15	N.O. of relay output

2-4 The connection of limit switches and digital inputs



2-5 The connection of digital outputs

