CONTROL AMPLIFIER FOR EHD1

ECAD-SD1-*

This control amplifier controls high-speed current-controlled type directional and flow control valves (EHD1).

The control circuit power supply is stabilized and an operational amplifier is used for the control circuit so that the control amplifier ensures stable operation regardless of variations in power supply voltage and load.

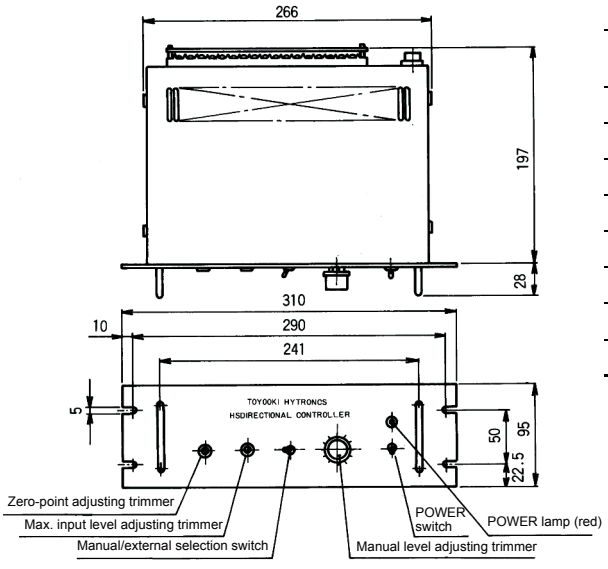
- The cord connecting the valve coil connection terminal to the valve coil should have a current capacity of 2 A or larger, and the voltage drop in the connection cord should be limited to within 2 V.
- The chassis is not connected to the ground of the internal control power supply. To connect the chassis to the internal control power supply ground, connect terminal No. 4.
- If the SOL connection terminal is disconnected with the power on, a surge voltage is generated and it may degrade the solenoid insulation.

SPECIFICATIONS

Model	ECAD-SD1-A	ECAD-SD1-B
Power supply voltage	100/110 VAC 50/60Hz	200/220 VAC 50/60Hz
Permissible voltage variation range	±0%	
Input voltage	0 to ±5V	
Max. gain	300 mA / 5 V	
Input impedance	25 kΩ	
Rated output current	±300 mA	
Variable resistor for setting	2 kΩ (when an external setting variable resistor is used)	
Operating temperature range	0 to 50 °C	
Max. power consumption	50 VA	
Applicable valve	EHD1	

EXTERNAL DIMENSIONS

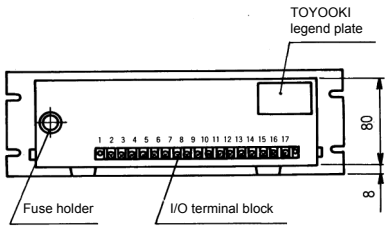
● ECAD-SD1-*



● Terminal Functions

Terminal No.	Descriptions	Terminal No.	Descriptions
1	Power supply input (NOTE)	10	Input signal COM
2	1 to 2: 100 VAC (200 VAC)	11	Output signal −5V
3	1 to 3: 110 VAC (220 VAC)	12	Input signal IN
4	Frame ground	13	Output signal −5V
5	Output to valve	14	Spear
6		15	
7	Output to ammeter	16	
8		17	
9	Shield		

NOTE: Values in parentheses are for 200 VAC power supply.



● Terminal Connection