

EP series proportional valve controllers (multi-channel type) EPA



- One output for 2 input design with 2 stage switching on input signal. Three circuits are in parallel allowing simultaneous drive of 3 proportional valves.
- Output section provides fixed current control so output current always remains fixed even with changes in load resistance.
- 6S3, 6D3 types incorporate feedback circuits to drive flow control valves with position sensors providing accurate flow control compared to open loop systems.

Model Code

EPA - 6 X 3 -A- 10

1 2 3 4 5 6

- 1 EP Series multi-channel controller
- 2 Input no.
6: 2 input/1 output X 3 channel
- 3 Control modes

Code	Open Loop	Closed Loop w/ Position Sensor (LVDT)
X	All channel	—
S	Channel 2, 3,	Channel 1
D	Channel 3	Channel 1, 2

- 4 Output no.
3:3 Output
- 5 Output waveform

Waveform	Integral Waveform			First Order Lag Waveform		
	1	2	3	1	2	3
Channel No.						
Omitted	○	○	○	—	—	—
A	—	—	—	○	○	○
B	○	—	—	—	○	○
C	—	○	—	○	—	○
D	—	—	○	○	○	—

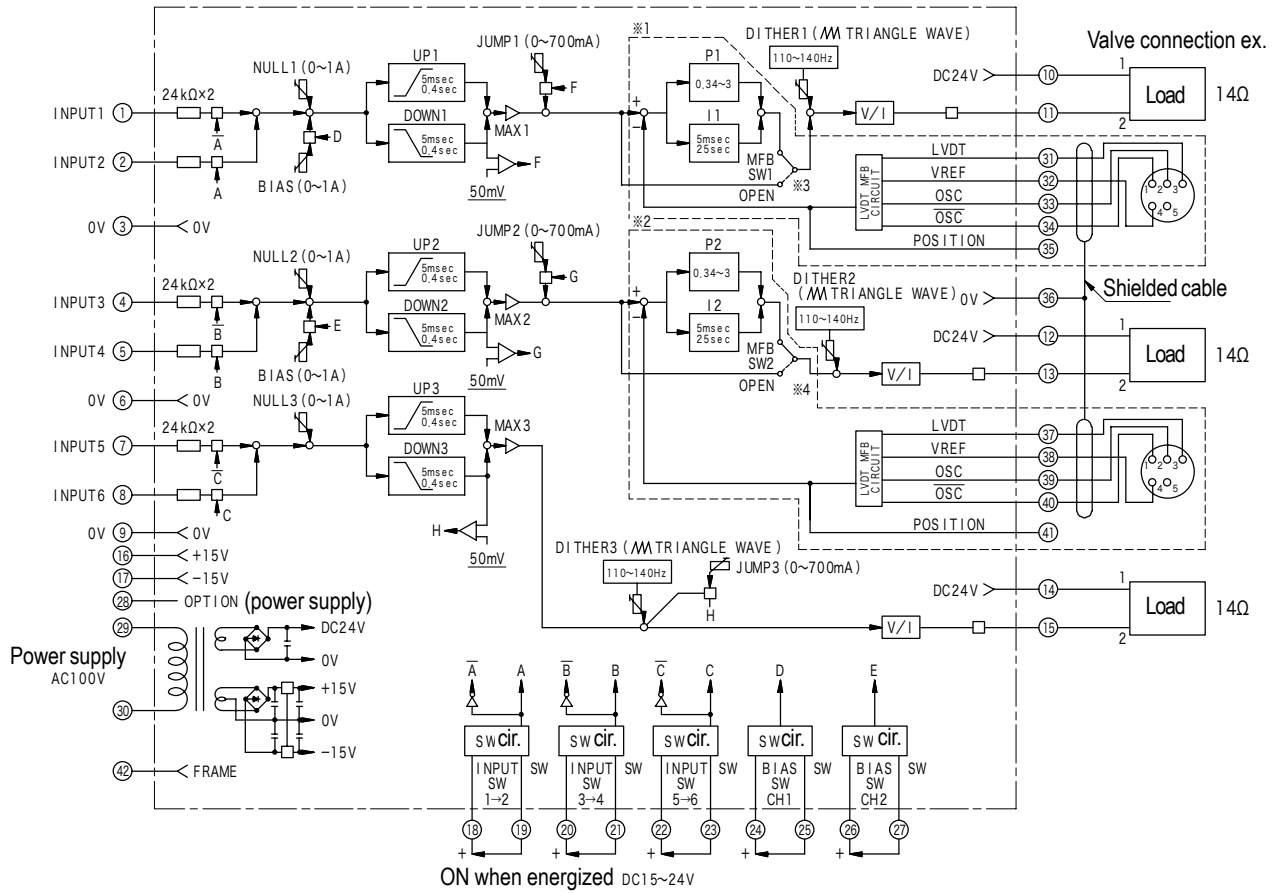
- 6 Design no.

Specifications

Power supply	AC100/110 V 50/60 Hz
Max. power consumption	80 VA
Input signal voltage	DC0~10 V
Input impedance	22 kΩ
Output current	0~1 A/1ch
Load resistance	14 Ω (at20 °C)
Dither frequency	110~140 Hz
Dither current	Channel : 0~400 mA _{p-p} (triangle wave)
	Channel : 0~300 mA _{p-p} (triangle wave)
Linearity	Less than 1% (command voltage vs. current)
Operating temp.	0~50 °C
Storage temp.	-10~+75 °C
Relative humidity	30~90 %
Weight	4 kg

Specifications

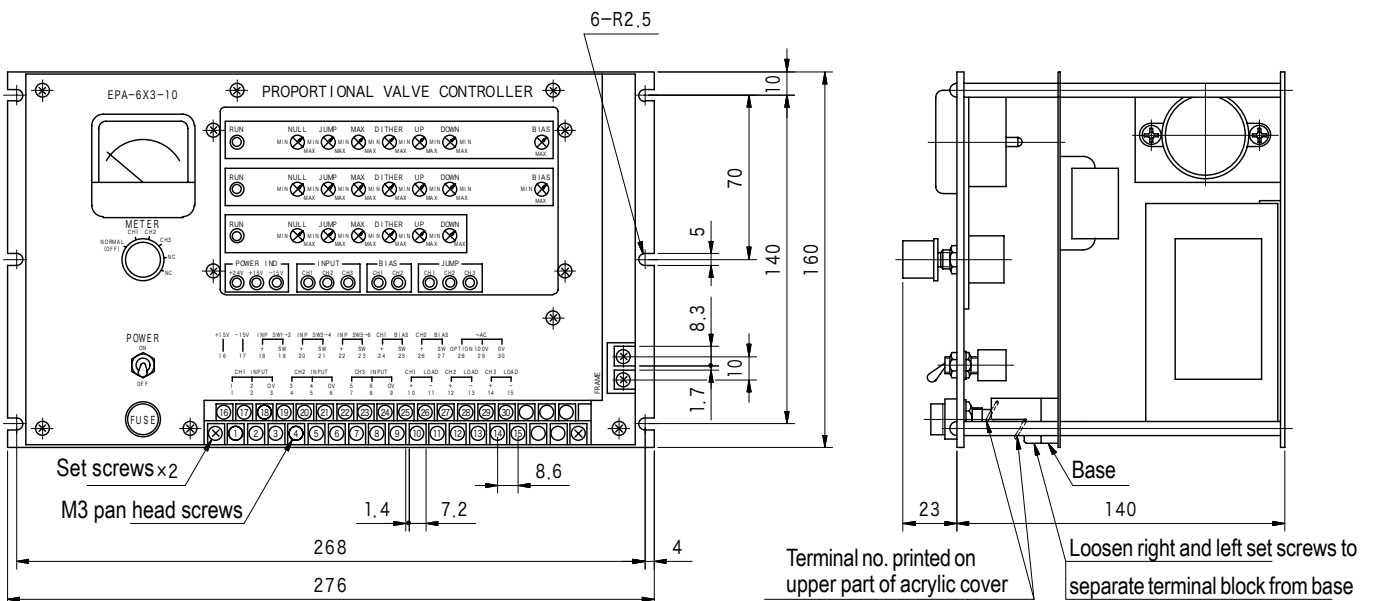
Block Diagram



Model Code	With/Without Circuit		With/Without Switch	
	※1	※2	SW1	SW2
EPA-6X3-(*)-10	W/O	W/O	W/O ※3 connec.	W/O ※4 connec.
EPA-6S3-(*)-10	With	W/O	With	W/O ※4 connec.
EPA-6D3-(*)-10	With	With	With	With

According to the model code, configuration of unit bordered by the dotted line is shown in the above table.

Dimensions



Note: Drawing above is for EPA-6X3-(*)-10
 Dimensions of EPA-6S3-(*)-10, EPA-6D3-(*)-10 are same as above drawing but appearance of terminal block section differs.