

# ELECTRONIC DRIVER BOARDS

## Tension Reducer (PRB) for 8-control Solenoid Valves - 758 Series

PRB (Power Reduction Board) scheme, expressly developed for 758 Series, 8 control models, allows a significant reduction of the solenoid valve power consumption and optimises its use temperature even in particularly difficult use conditions, such as:

- use with non-stabilized tensions
- use in high temperature environments
- continuative use with 100%-duty-cycle

PRB circuit is totally transparent to control driver of the valve and it intervenes in the case in which control times exceed 100 ms, by providing the coil with a resistance in series with consequent reduction of feeding tension. Considering the low value of the required tension to keep the valve open, the dissipation on the resistance results extremely reduced.

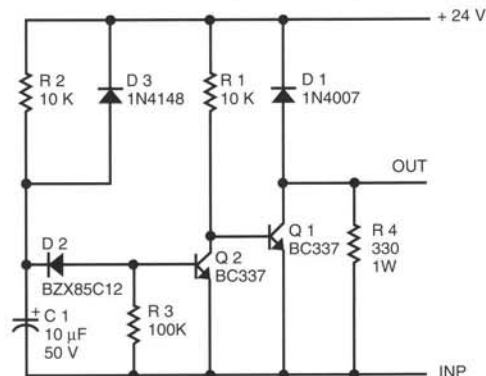
### Marginal note

1. PRB circuit limits solenoid valves maximum operative frequency to 20 Hz.
2. PRB circuit is not consistent with solenoid valves equipped with anti-disturbance diodes.

### PRB circuit incidence on the power dissipated by solenoid valves

Model	VDC	Dissipated power (single coil)	
Solenoid Valves <input type="text"/> <input type="text"/> <input type="text"/> 7 5 8 8 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 2 4	24	without PRB	1.25 W
Solenoid Valves <input type="text"/> <input type="text"/> <input type="text"/> 7 5 8 8 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 2 4	24	with PRB	0.42 W
Solenoid Valves <input type="text"/> <input type="text"/> <input type="text"/> 7 5 8 8 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> J J	24	without PRB	1.9 W
Solenoid Valves <input type="text"/> <input type="text"/> <input type="text"/> 7 5 8 8 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> J J	24	with PRB	0.65 W

PRB Circuit, electric scheme



### How to order PRB driver board - Available

The PRB driver boards are suitable for all models of 8-control, 24 VDC version 758 Series.

Model	VDC	No. Channels	No. connectable Solenoid valves	(PRB) Driver Board Code
Solenoid Valves <input type="text"/> <input type="text"/> <input type="text"/> 7 5 8 8 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 2 4	24	48	6	560.072 G
Solenoid Valves <input type="text"/> <input type="text"/> <input type="text"/> 7 5 8 8 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 2 4	24	40	5	560.107 P
Solenoid Valves <input type="text"/> <input type="text"/> <input type="text"/> 7 5 8 8 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 2 4	24	32	4	560.108 Q
Solenoid Valves <input type="text"/> <input type="text"/> <input type="text"/> 7 5 8 8 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> J J	24	48	6	560.092 A
Solenoid Valves <input type="text"/> <input type="text"/> <input type="text"/> 7 5 8 8 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> J J	24	40	5	560.105 N
Solenoid Valves <input type="text"/> <input type="text"/> <input type="text"/> 7 5 8 8 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> J J	24	32	4	560.106 O

# ELECTRONIC DRIVER BOARDS

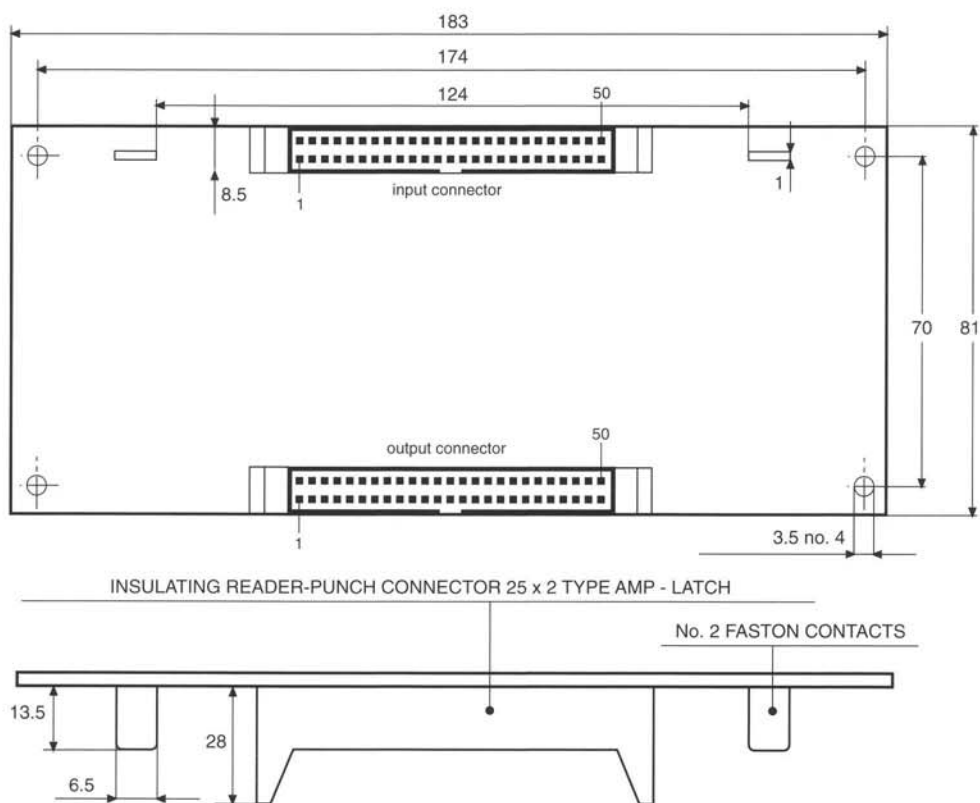
## CONNECTOR INPUT 50 PIN

1 • Valve 1 Input 1	26 • Valve 4 Input 2
2 • Valve 1 Input 2	27 • Valve 4 Input 3
3 • Valve 1 Input 3	28 • Valve 4 Input 4
4 • Valve 1 Input 4	29 • Valve 4 Input 5
5 • Valve 1 Input 5	30 • Valve 4 Input 6
6 • Valve 1 Input 6	31 • Valve 4 Input 7
7 • Valve 1 Input 7	32 • Valve 4 Input 8
8 • Valve 1 Input 8	33 • Valve 5 Input 1
9 • Valve 2 Input 1	34 • Valve 5 Input 2
10 • Valve 2 Input 2	35 • Valve 5 Input 3
11 • Valve 2 Input 3	36 • Valve 5 Input 4
12 • Valve 2 Input 4	37 • Valve 5 Input 5
13 • Valve 2 Input 5	38 • Valve 5 Input 6
14 • Valve 2 Input 6	39 • Valve 5 Input 7
15 • Valve 2 Input 7	40 • Valve 5 Input 8
16 • Valve 2 Input 8	41 • Valve 6 Input 1
17 • Valve 3 Input 1	42 • Valve 6 Input 2
18 • Valve 3 Input 2	43 • Valve 6 Input 3
19 • Valve 3 Input 3	44 • Valve 6 Input 4
20 • Valve 3 Input 4	45 • Valve 6 Input 5
21 • Valve 3 Input 5	46 • Valve 6 Input 6
22 • Valve 3 Input 6	47 • Valve 6 Input 7
23 • Valve 3 Input 7	48 • Valve 6 Input 8
24 • Valve 3 Input 8	49 • —
25 • Valve 4 Input 1	50 • —

## CONNECTOR OUTPUT 50 PIN

1 • Valve 1 Output Control 1	26 • Valve 4 Output Control 2
2 • Valve 1 Output Control 2	27 • Valve 4 Output Control 3
3 • Valve 1 Output Control 3	28 • Valve 4 Output Control 4
4 • Valve 1 Output Control 4	29 • Valve 4 Output Control 5
5 • Valve 1 Output Control 5	30 • Valve 4 Output Control 6
6 • Valve 1 Output Control 6	31 • Valve 4 Output Control 7
7 • Valve 1 Output Control 7	32 • Valve 4 Output Control 8
8 • Valve 1 Output Control 8	33 • Valve 5 Output Control 1
9 • Valve 2 Output Control 1	34 • Valve 5 Output Control 2
10 • Valve 2 Output Control 2	35 • Valve 5 Output Control 3
11 • Valve 2 Output Control 3	36 • Valve 5 Output Control 4
12 • Valve 2 Output Control 4	37 • Valve 5 Output Control 5
13 • Valve 2 Output Control 5	38 • Valve 5 Output Control 6
14 • Valve 2 Output Control 6	39 • Valve 5 Output Control 7
15 • Valve 2 Output Control 7	40 • Valve 5 Output Control 8
16 • Valve 2 Output Control 8	41 • Valve 6 Output Control 1
17 • Valve 3 Output Control 1	42 • Valve 6 Output Control 2
18 • Valve 3 Output Control 2	43 • Valve 6 Output Control 3
19 • Valve 3 Output Control 3	44 • Valve 6 Output Control 4
20 • Valve 3 Output Control 4	45 • Valve 6 Output Control 5
21 • Valve 3 Output Control 5	46 • Valve 6 Output Control 6
22 • Valve 3 Output Control 6	47 • Valve 6 Output Control 7
23 • Valve 3 Output Control 7	48 • Valve 6 Output Control 8
24 • Valve 3 Output Control 8	49 • —
25 • Valve 4 Output Control 1	50 • —

### PRB Scheme, Size and Connections



### Electrical characteristics

Nominal control tension	24 VDC	Maximum frequency use	20 Hz
Minimum control tension	21.6 VDC	Shutdown diode	Included
Attivation time of riductor	2 sec.		

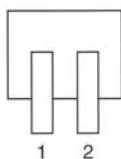
# ELECTRONIC DRIVER BOARDS

## 9-Channel Driver Board PCM 8130

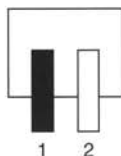
The 9-channel driver board PCM 8130 is prearranged for the control of the proportional flow solenoid valves of 860 PCM Series. Said driver board may be setup through two dip-switches both for the control of 6-bit models with 64 conductance levels, and for the control of 8-bit models with 256 conductance levels.

The driver board accepts either 6- and 8-digital signals with direct input, or 0-10 V tension signals, subsequently converted into binary code. Said driver board may be integrated in a suitable protection box, which makes easier its installation (see 9-channel Driver Box PCM).

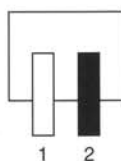
### DIP - SWITCH SETTING



6 bit resolution  
Solenoid valve control through digital input (channels)



8 bit resolution  
Solenoid valve control through digital input (channels)



6 bit resolution  
Solenoid valve control through analogic input (0+10 V)



8 bit resolution  
Solenoid valve control through analogic input (0+10 V)

Legend



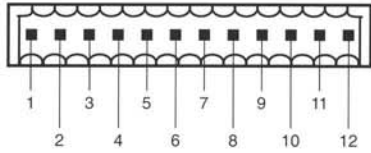
### Electrical characteristics

Supply voltage	24 VDC $\pm$ 10 %
Absorbtion current	20 mA (when all s.v. closed)
Input tension for s.v. control (single channel)	5 ÷ 32 VCD
Input current for s.v. control (single channel)	3 ÷ 25 mA

# ELECTRONIC DRIVER BOARDS

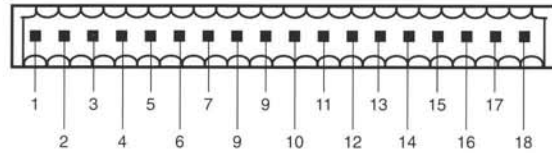
## 9-Channel Driver Board PCM 8130

### 12-POLE TERMINAL BLOCK CONNECTOR

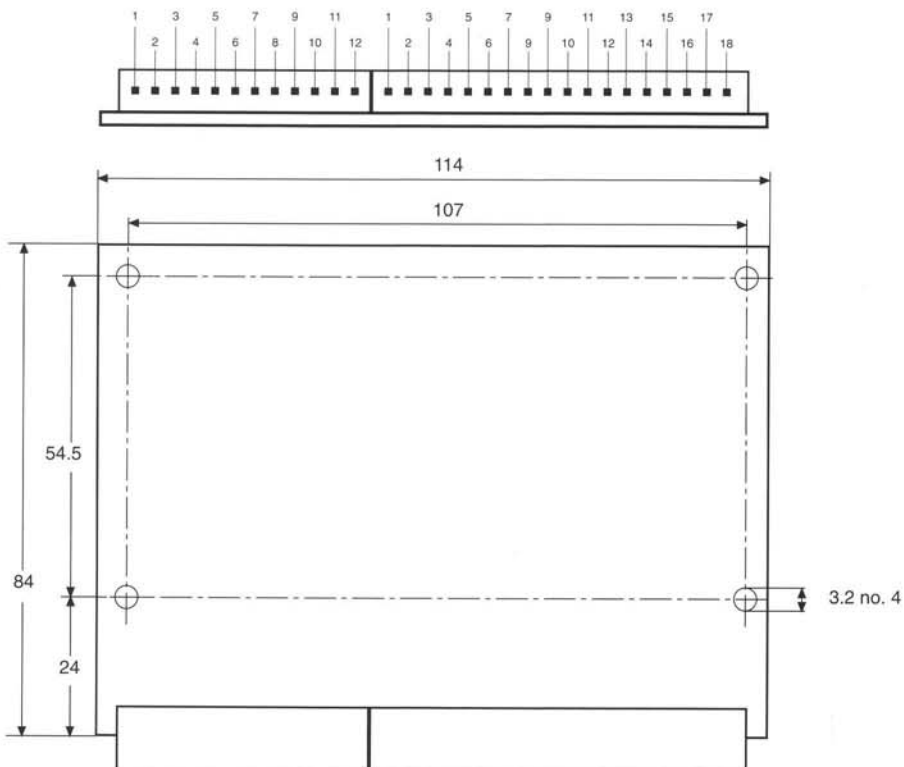


- 1 • Valve 9 Output control
- 2 • Valve 8 Output control
- 3 • Valve 7 Output control
- 4 • Valve 6 Output control
- 5 • Valve 5 Output control
- 6 • Valve 4 Output control
- 7 • Valve 3 Output control
- 8 • Valve 2 Output control
- 9 • Valve 1 Output control
- 10 • Valve Common
- 11 • Valve Common
- 12 • Valve Common

### 18-POLE TERMINAL BLOCK CONNECTOR



- |   |        |
|---|--------|
| 1 • + Supply                                | 15 • — |
| 2 • - Supply                                | 16 • — |
| 3 • + Channel 1 Input                       | 17 • — |
| 4 • + Channel 2 Input                       | 18 • — |
| 5 • + Channel 3 Input                       |        |
| 6 • + Channel 4 Input                       |        |
| 7 • + Channel 5 Input                       |        |
| 8 • + Channel 6 Input                       |        |
| 9 • + Channel 7 Input                       |        |
| 10 • + Channel 8 Input                      |        |
| 11 • - Channels Input                       |        |
| 12 • Output 10 VDC                          |        |
| 13 • Input control<br>in tension 0 ÷ 10 VDC |        |
| 14 • —                                      |        |



# ELECTRONIC DRIVER BOARDS

## 8-Channel Universal Driver Board

The 8-channel universal driver board is suitable for the pilot driving of a wide range of Matrix solenoid valves both in on-off modality, and in speed-up modality

In on-off modality the driver board automatically provides to reduce the tension value after the SV opening phase, reducing in such a way its consumption and thermal dissipation.

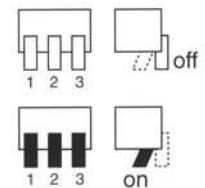
In speed-up modality the care and precision of the electric control assure the best working conditions to the Solenoid valve and optimize its performance.

The arrangement of the driver board to the different SV features (configuration change) is easily performed by the user through the setup of three dip-switches, which are present therein.

The universal driver board is available with some different connection typologies. D-Sub and terminal board types may be integrated in a suitable protection box, facilitating their installation (see 8-Channel Universal Driver Box).

### SETTING DIP - SWITCH

Solenoid Valve / Series	DIP - SWITCH
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 8 2 0 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> XX	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 8 2 0 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> KK	
(1) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 8 5 0 9 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> XX	
(1) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 8 5 0 9 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> KK	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 7 5 0 8 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> XX	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 7 5 0 8 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> KK	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 7 2 0 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 24	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 7 5 0 8 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 24	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 8 2 0 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 24	
(1) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 8 5 0 9 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 24	



(1) - Only 8 channels connectable (no connection for the ninth channel)

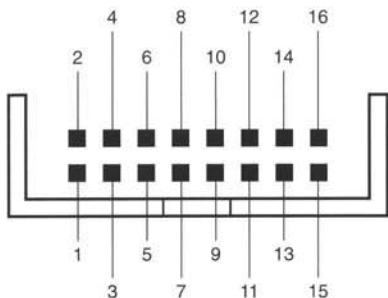
### Electrical characteristics

Supply voltage	24 VDC $\pm$ 10%
Absorbion current	20 mA (when all s.v. closed)
Maximum frequency piloting	200 Hz
Input tension for s.v. control (single channel)	5 $\div$ 32 VCD
Input current for s.v. control (single channel)	3 $\div$ 25 mA
Control	NPN or PNP type

# ELECTRONIC DRIVER BOARDS

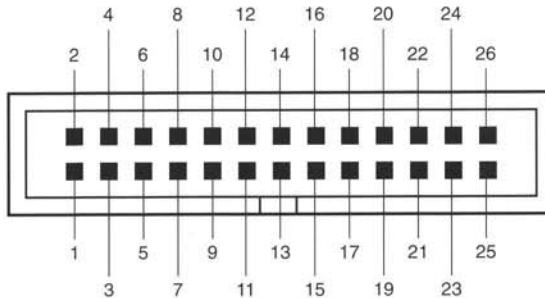
## 8-Channel Universal Driver Board UDB 8010

**AMP MODU II CONNECTOR**

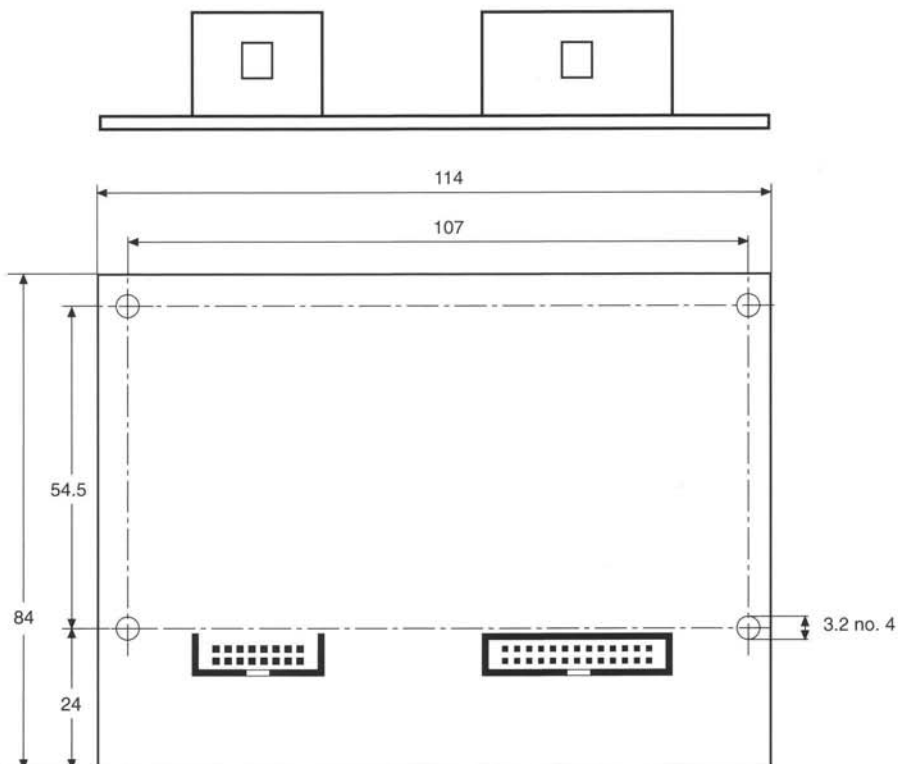


1 • Valve 8 Output control
2 • Valve 7 Output control
3 • Valve 6 Output control
4 • Valve 5 Output control
5 • Valve 4 Output control
6 • Valve 3 Output control
7 • Valve 2 Output control
8 • Valve 1 Output control
9 • Valve Common
10 • Valve Common
11 • Valve Common
12 • Valve Common
13 • —
14 • —
15 • —
16 • —

**AMP LATCH 13 x 2 CONNECTOR**



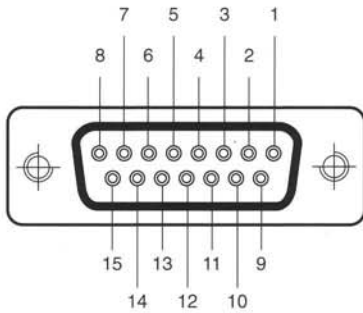
1 • + Supply	17 • - Channel 4 Input
2 • + Supply	18 • + Channel 4 Input
3 • - Supply	19 • - Channel 5 Input
4 • - Supply	20 • + Channel 5 Input
5 • - Supply	21 • - Channel 6 Input
6 • - Supply	22 • + Channel 6 Input
7 • - Supply	23 • - Channel 7 Input
8 • - Supply	24 • + Channel 7 Input
9 • - Supply	25 • - Channel 8 Input
10 • - Supply	26 • + Channel 8 Input
11 • - Channel 1 Input	
12 • + Channel 1 Input	
13 • - Channel 2 Input	
14 • + Channel 2 Input	
15 • - Channel 3 Input	
16 • + Channel 3 Input	



# ELECTRONIC DRIVER BOARDS

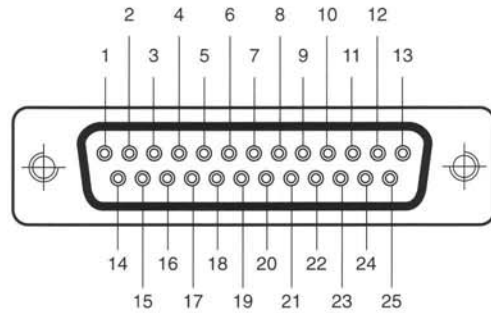
## 8-Channel Universal Driver Board UDB 8020

### 15-POSITION D-SUB CONNECTOR

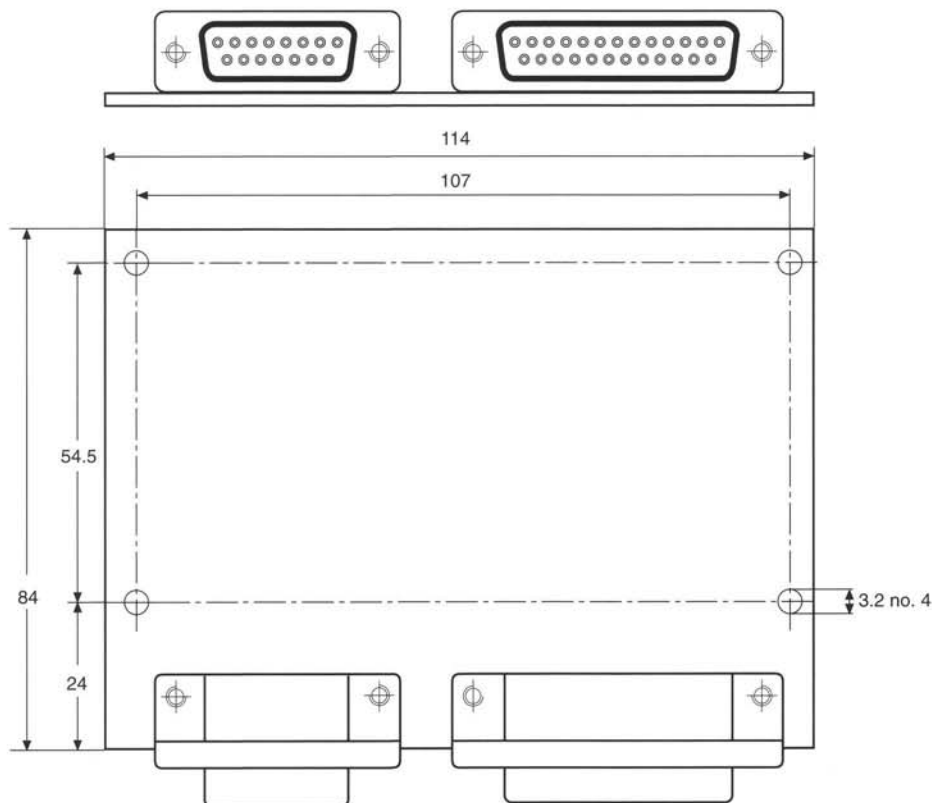


- 1 • Valve 1 Output control
- 2 • Valve 2 Output control
- 3 • Valve 3 Output control
- 4 • Valve 4 Output control
- 5 • Valve 5 Output control
- 6 • Valve 6 Output control
- 7 • Valve 7 Output control
- 8 • Valve 8 Output control
- 9 • Valve Common
- 10 • Valve Common
- 11 • Valve Common
- 12 • Valve Common
- 13 • —
- 14 • —
- 15 • —

### 25-POSITION D-SUB CONNECTOR



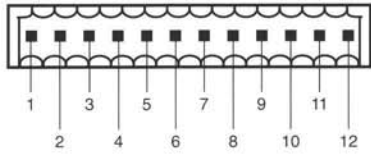
- |                        |                        |
|------------------------|------------------------|
| 1 • + Supply           | 17 • - Supply          |
| 2 • + Supply           | 18 • - Channel 1 Input |
| 3 • - Supply           | 19 • - Channel 2 Input |
| 4 • - Supply           | 20 • - Channel 3 Input |
| 5 • + Channel 1 Input  | 21 • - Channel 4 Input |
| 6 • + Channel 2 Input  | 22 • - Channel 5 Input |
| 7 • + Channel 3 Input  | 23 • - Channel 6 Input |
| 8 • + Channel 4 Input  | 24 • - Channel 7 Input |
| 9 • + Channel 5 Input  | 25 • - Channel 8 Input |
| 10 • + Channel 6 Input |                        |
| 11 • + Channel 7 Input |                        |
| 12 • + Channel 8 Input |                        |
| 13 • —                 |                        |
| 14 • + Supply          |                        |
| 15 • + Supply          |                        |
| 16 • - Supply          |                        |



# ELECTRONIC DRIVER BOARDS

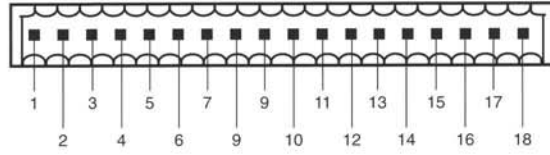
## 8-Channel Universal Driver Board UDB 8030

### 12-POLE TERMINAL BLOCK CONNECTOR

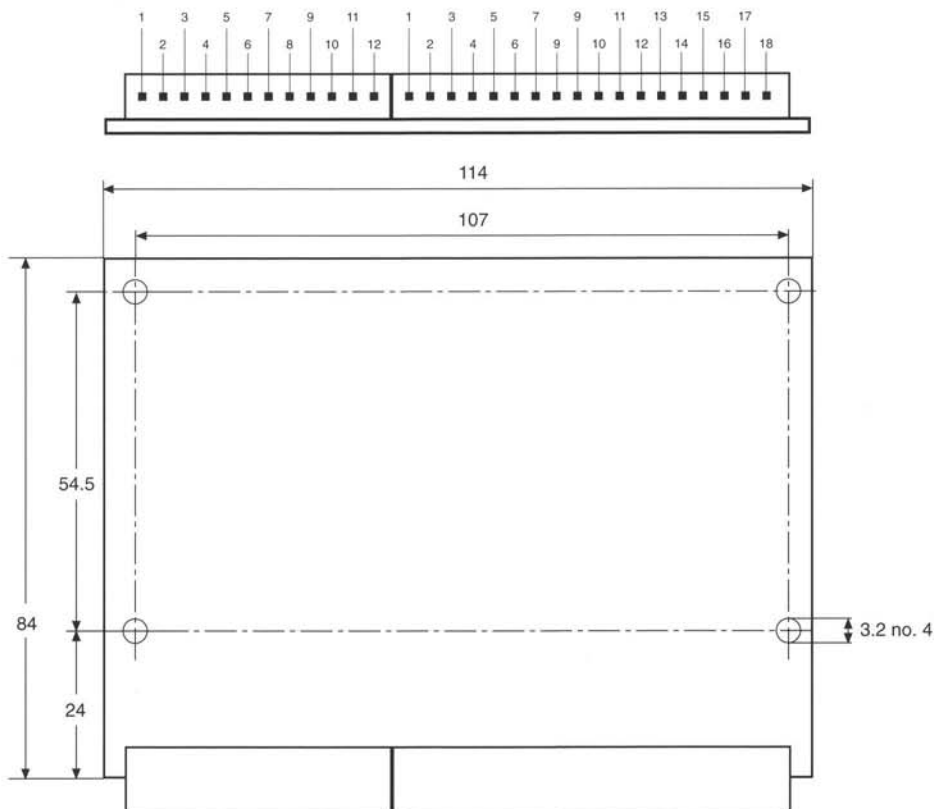


- 1 • Valve 8 Output control
- 2 • Valve 7 Output control
- 3 • Valve 6 Output control
- 4 • Valve 5 Output control
- 5 • Valve 4 Output control
- 6 • Valve 3 Output control
- 7 • Valve 2 Output control
- 8 • Valve 1 Output control
- 9 • Valve Common
- 10 • Valve Common
- 11 • Valve Common
- 12 • Valve Common

### 18-POLE TERMINAL BLOCK CONNECTOR



- |                        |                        |
|------------------------|------------------------|
| 1 • + Supply           | 15 • + Channel 7 Input |
| 2 • - Supply           | 16 • - Channel 7 Input |
| 3 • + Channel 1 Input  | 17 • + Channel 8 Input |
| 4 • - Channel 1 Input  | 18 • - Channel 8 Input |
| 5 • + Channel 2 Input  |                        |
| 6 • - Channel 2 Input  |                        |
| 7 • + Channel 3 Input  |                        |
| 8 • - Channel 3 Input  |                        |
| 9 • + Channel 4 Input  |                        |
| 10 • - Channel 4 Input |                        |
| 11 • + Channel 5 Input |                        |
| 12 • - Channel 5 Input |                        |
| 13 • + Channel 6 Input |                        |
| 14 • - Channel 6 Input |                        |

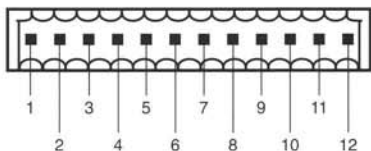




# ELECTRONIC DRIVER BOARDS

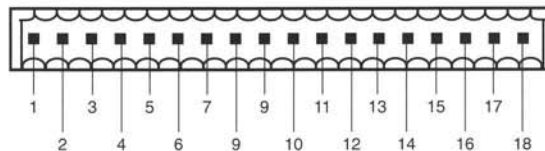
## 9-Channel Driver Box PCM 8630

### 12-POLE TERMINAL BLOCK CONNECTOR

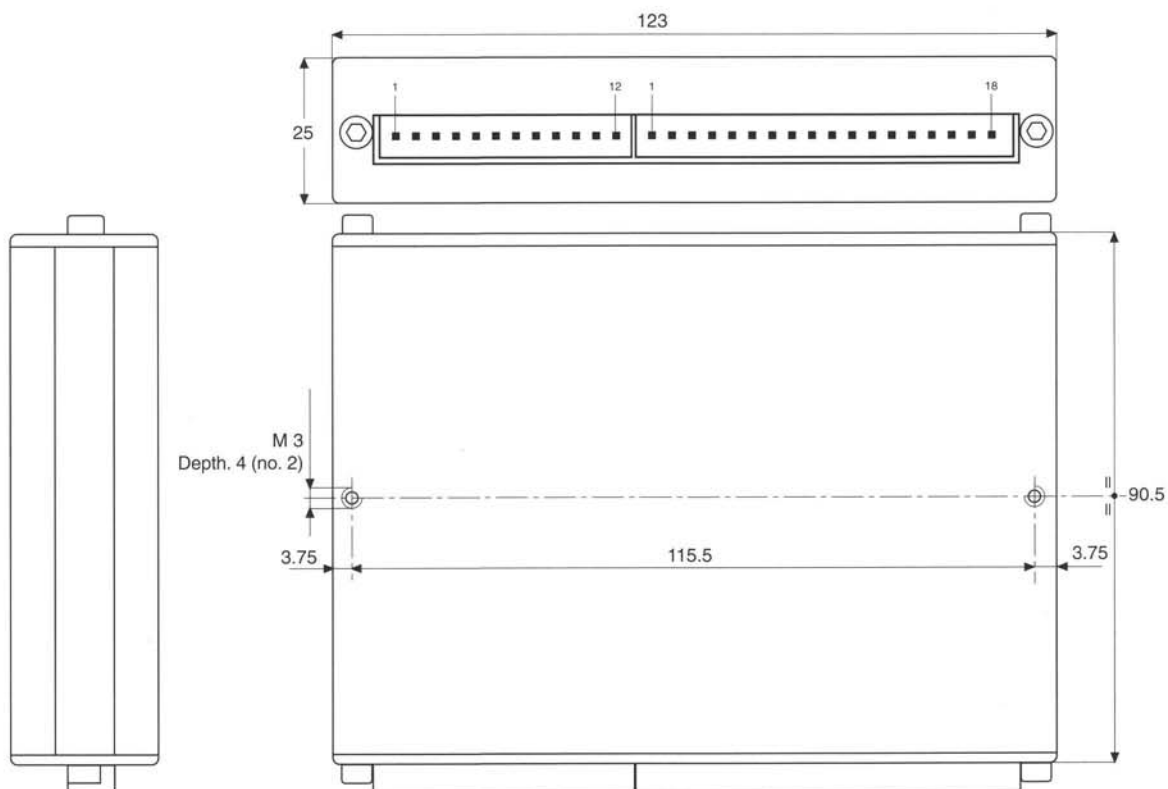


- |                            |
|----------------------------|
| 1 • Valve 9 Output control |
| 2 • Valve 8 Output control |
| 3 • Valve 7 Output control |
| 4 • Valve 6 Output control |
| 5 • Valve 5 Output control |
| 6 • Valve 4 Output control |
| 7 • Valve 3 Output control |
| 8 • Valve 2 Output control |
| 9 • Valve 1 Output control |
| 10 • Valve Common          |
| 11 • Valve Common          |
| 12 • Valve Common          |
|                            |
|                            |
|                            |
|                            |

### 18-POLE TERMINAL BLOCK CONNECTOR



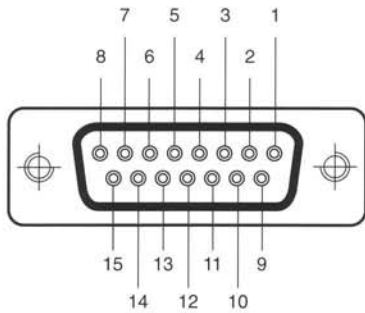
- |  |        |
|--|--------|
| 1 • + Supply                                 | 15 • — |
| 2 • - Supply                                 | 16 • — |
| 3 • + Channel 1 Input                        | 17 • — |
| 4 • + Channel 2 Input                        | 18 • — |
| 5 • + Channel 3 Input                        |        |
| 6 • + Channel 4 Input                        |        |
| 7 • + Channel 5 Input                        |        |
| 8 • + Channel 6 Input                        |        |
| 9 • + Channel 7 Input                        |        |
| 10 • + Channel 8 Input                       |        |
| 11 • - Channels Input                        |        |
| 12 • Outlet 10 VDC                           |        |
| 13 • Input control<br>for tension 0 ÷ 10 VDC |        |
| 14 • —                                       |        |



# ELECTRONIC DRIVER BOARDS

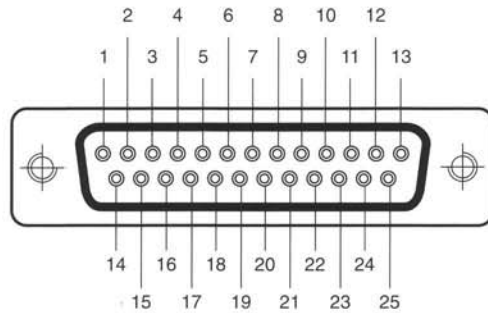
## 8-Channel Universal Driver Board UDB 8520

### 15-POSITION D-SUB CONNECTOR

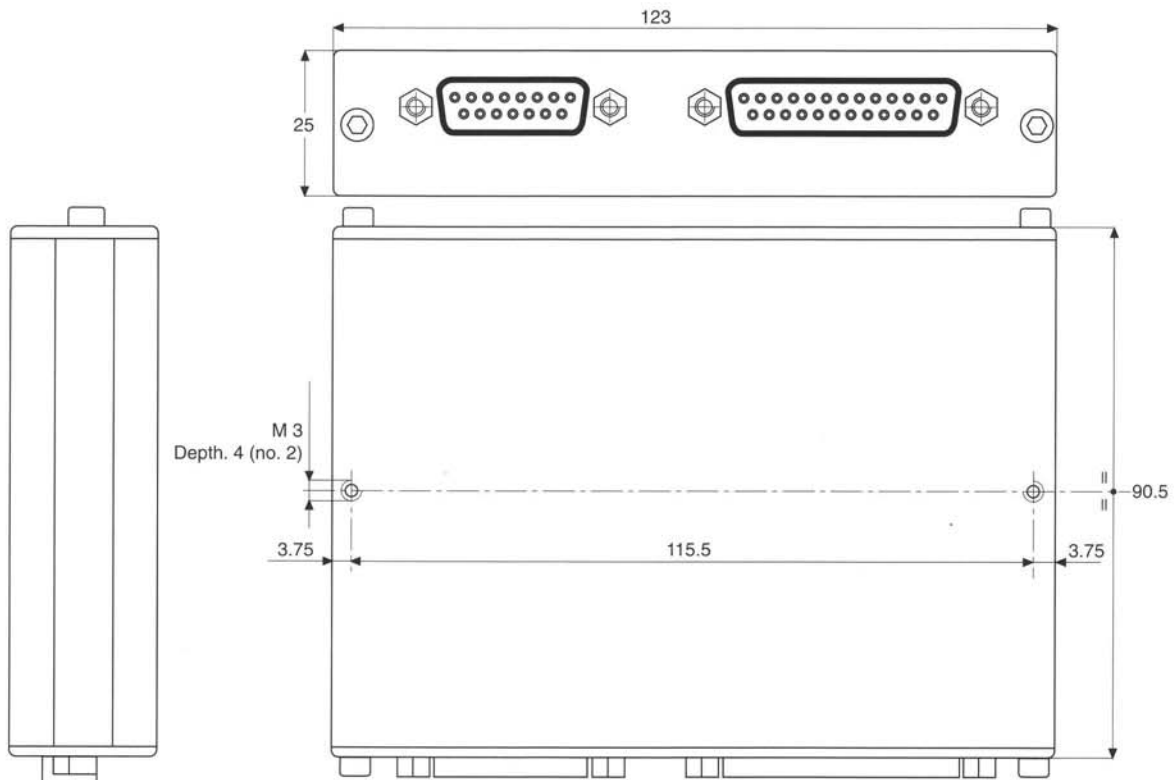


- 1 • Valve 1 Output control
- 2 • Valve 2 Output control
- 3 • Valve 3 Output control
- 4 • Valve 4 Output control
- 5 • Valve 5 Output control
- 6 • Valve 6 Output control
- 7 • Valve 7 Output control
- 8 • Valve 8 Output control
- 9 • Valve Common
- 10 • Valve Common
- 11 • Valve Common
- 12 • Valve Common
- 13 • —
- 14 • —
- 15 • —

### 25-POSITION D-SUB CONNECTOR



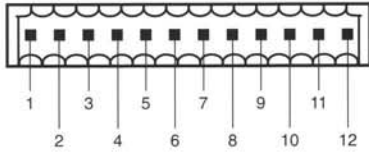
- |                        |                        |
|------------------------|------------------------|
| 1 • + Supply           | 17 • - Supply          |
| 2 • + Supply           | 18 • - Channel 1 Input |
| 3 • - Supply           | 19 • - Channel 2 Input |
| 4 • - Supply           | 20 • - Channel 3 Input |
| 5 • + Channel 1 Input  | 21 • - Channel 4 Input |
| 6 • + Channel 2 Input  | 22 • - Channel 5 Input |
| 7 • + Channel 3 Input  | 23 • - Channel 6 Input |
| 8 • + Channel 4 Input  | 24 • - Channel 7 Input |
| 9 • + Channel 5 Input  | 25 • - Channel 8 Input |
| 10 • + Channel 6 Input |                        |
| 11 • + Channel 7 Input |                        |
| 12 • + Channel 8 Input |                        |
| 13 • —                 |                        |
| 14 • + Supply          |                        |
| 15 • + Supply          |                        |
| 16 • - Supply          |                        |



# ELECTRONIC DRIVER BOARDS

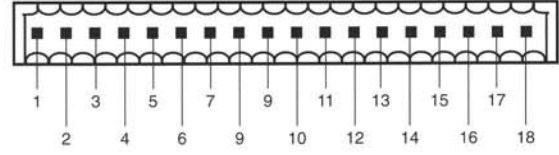
## 8-Channel Universal Driver Board UDB 8530

### 12-POLE TERMINAL BLOCK CONNECTOR

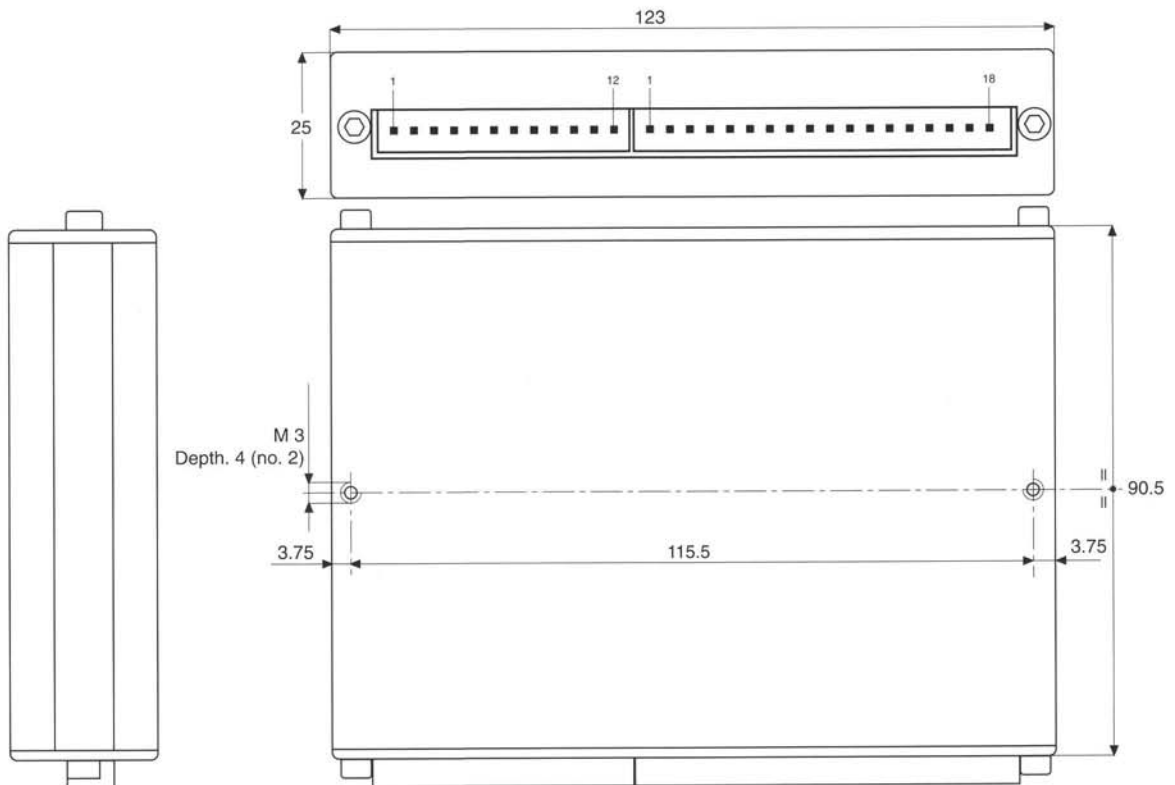


- |                            |
|----------------------------|
| 1 • Valve 8 Output control |
| 2 • Valve 7 Output control |
| 3 • Valve 6 Output control |
| 4 • Valve 5 Output control |
| 5 • Valve 4 Output control |
| 6 • Valve 3 Output control |
| 7 • Valve 2 Output control |
| 8 • Valve 1 Output control |
| 9 • Valve Common           |
| 10 • Valve Common          |
| 11 • Valve Common          |
| 12 • Valve Common          |
|                            |
|                            |
|                            |
|                            |

### 18-POLE TERMINAL BLOCK CONNECTOR



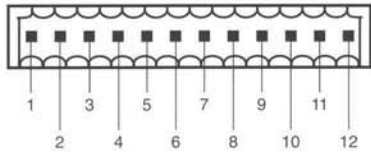
- |                        |                        |
|------------------------|------------------------|
| 1 • + Supply           | 15 • + Channel 7 Input |
| 2 • - Supply           | 16 • - Channel 7 Input |
| 3 • + Channel 1 Input  | 17 • + Channel 8 Input |
| 4 • - Channel 1 Input  | 18 • - Channel 8 Input |
| 5 • + Channel 2 Input  |                        |
| 6 • - Channel 2 Input  |                        |
| 7 • + Channel 3 Input  |                        |
| 8 • - Channel 3 Input  |                        |
| 9 • + Channel 4 Input  |                        |
| 10 • - Channel 4 Input |                        |
| 11 • + Channel 5 Input |                        |
| 12 • - Channel 5 Input |                        |
| 13 • + Channel 6 Input |                        |
| 14 • - Channel 6 Input |                        |
|                        |                        |
|                        |                        |



# ELECTRONIC DRIVER BOARDS

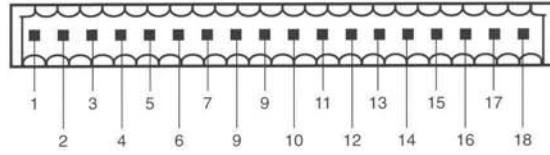
## 9-Channel Universal Driver Board UDB 9030

### 12-POLE TERMINAL BLOCK CONNECTOR

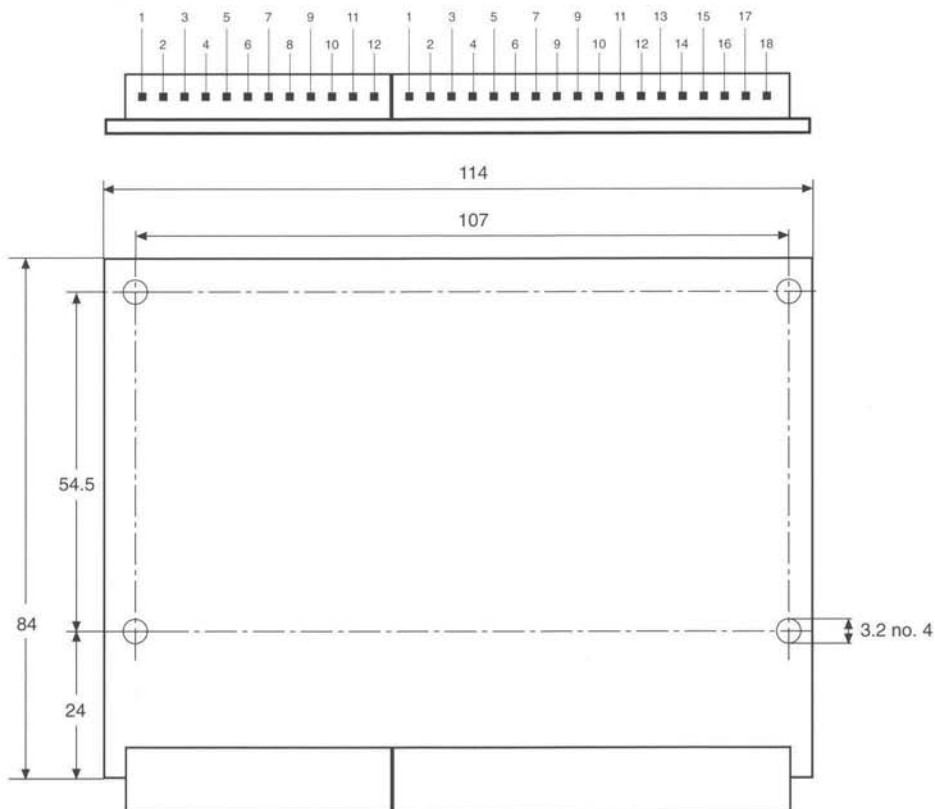


- 1 • Valve 9 Output control
- 2 • Valve 8 Output control
- 3 • Valve 7 Output control
- 4 • Valve 6 Output control
- 5 • Valve 5 Output control
- 6 • Valve 4 Output control
- 7 • Valve 3 Output control
- 8 • Valve 2 Output control
- 9 • Valve 1 Output control
- 10 • Valve Common
- 11 • Valve Common
- 12 • Valve Common

### 18-POLE TERMINAL BLOCK CONNECTOR



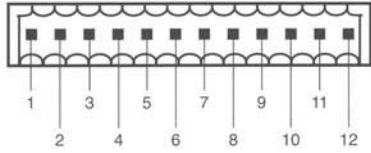
- |                        |      |
|------------------------|------|
| 1 • + Supply           | 15 • |
| 2 • - Supply           | 16 • |
| 3 • + Channel 1 Input  | 17 • |
| 4 • + Channel 2 Input  | 18 • |
| 5 • + Channel 3 Input  |      |
| 6 • + Channel 4 Input  |      |
| 7 • + Channel 5 Input  |      |
| 8 • + Channel 6 Input  |      |
| 9 • + Channel 7 Input  |      |
| 10 • + Channel 8 Input |      |
| 11 • + Channel 9 Input |      |
| 12 • - Channel x Input |      |
| 13 • —                 |      |
| 14 •                   |      |



# ELECTRONIC DRIVER BOARDS

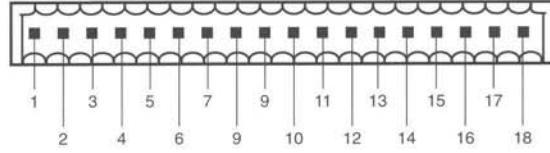
## 9-Channel Universal Driver Board UDB 9530

### 12-POLE TERMINAL BLOCK CONNECTOR



1 • Valve 9 Output control
2 • Valve 8 Output control
3 • Valve 7 Output control
4 • Valve 6 Output control
5 • Valve 5 Output control
6 • Valve 4 Output control
7 • Valve 3 Output control
8 • Valve 2 Output control
9 • Valve 1 Output control
10 • Valve Common
11 • Valve Common
12 • Valve Common

### 18-POLE TERMINAL BLOCK CONNECTOR



1 • + Supply	15 •
2 • - Supply	16 •
3 • + Channel 1 Input	17 •
4 • + Channel 2 Input	18 •
5 • + Channel 3 Input	
6 • + Channel 4 Input	
7 • + Channel 5 Input	
8 • + Channel 6 Input	
9 • + Channel 7 Input	
10 • + Channel 8 Input	
11 • + Channel 9 Input	
12 • - Channel x Input	
13 • —	
14 •	

