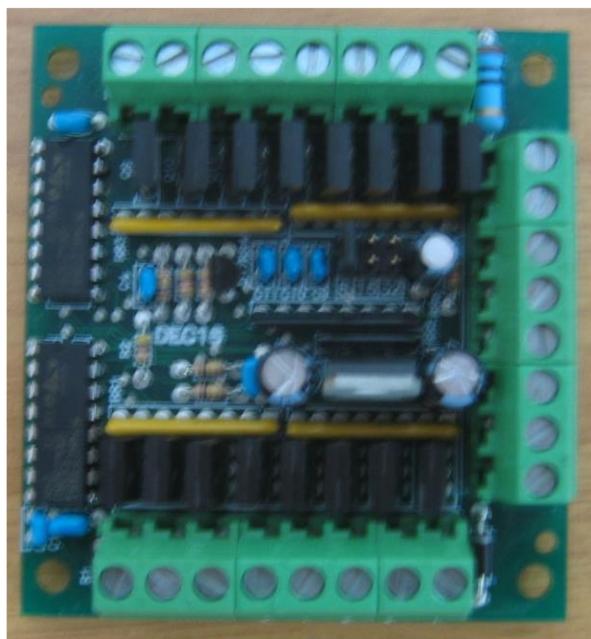




ITALIAN STYLE FOR LIFTS

# DECODER DEC16



Installation and programming manual

Vers.1.1

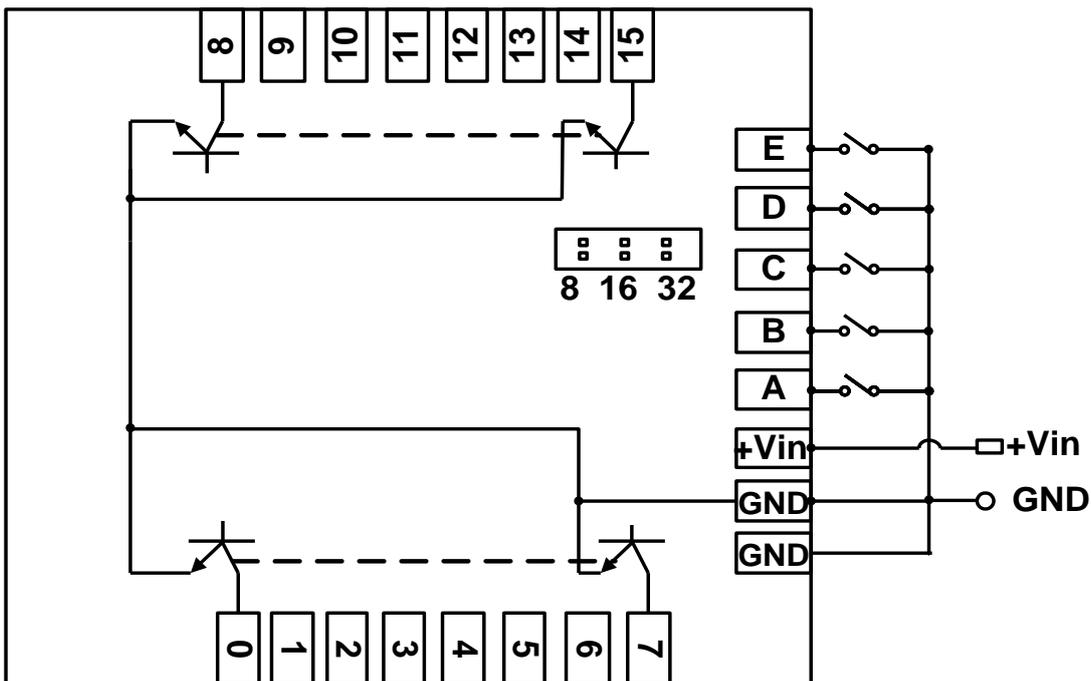
## Technical characteristics

SIZE	VALUE
Power supply	12 Vac/dc* +/- 10%
Absorption	0.1 A
Max voltage to the control input (A,B,C,D,E)	6Vdc
Max voltage to the decoded outputs (0,1.....15)	32V
Max current to the decoded outputs (0,1.....15)	200mA
Open collector outputs (a transistor)	
Manage up to 16 decoded outputs, expandable to 32 with 2 DEC 16.	

### NOTE:

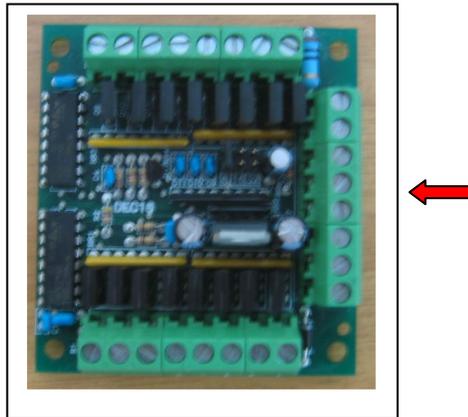
\*In the case of DC observing the polarity marked.

Operation of DEC 16.



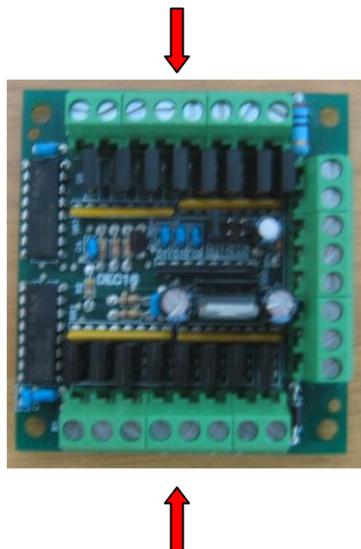
Tables of connections  
**Connector J3**

Terminal	Function	Note
GND,GND	GROUND OF THE BOARD	
+Vin	INPUT OF THE POWER SUPPLY	12Vac/dc +/- 10%
A,B,C,D,E	INPUTS OF BINARY CODE	ACTIVE IF CONNECTED TO GND (see applications schemes)



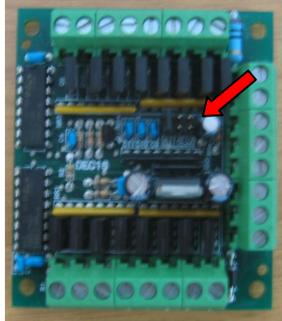
**Connectors J1,J2**

Terminal	Function	Note
0,1,2...14,15	OUTPUTS OF THE DECODING	Open collector outputs active at GND, maximum current 200mA per channel.



## Settings

Command	Function	NOTE
Jumper 8-16-32	It is used to correctly set according to the amount of decoding to generate.	See notes of use.

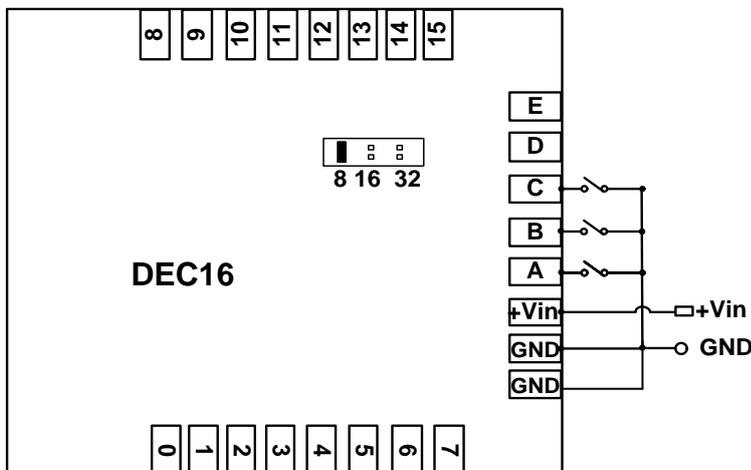


## Use and programming

The card DEC16 is provided with a jumper with 3 positions:

**Position 8:** can be connected only inputs A, B and C in order to generate the 8 corresponding decodings, the inputs D and E are ignored:

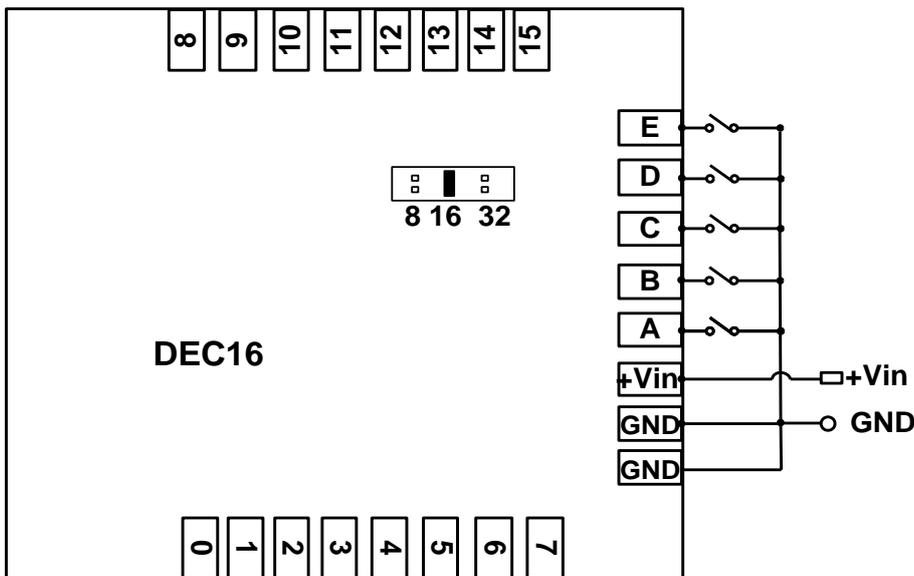
Jumper in position 8																				
A	B	C	D	E	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
gnd	gnd	gnd	x	x	On	Off														
nc	gnd	gnd	x	x	Off	On	Off													
gnd	nc	gnd	x	x	Off	Off	On	Off												
nc	nc	gnd	x	x	Off	Off	Off	On	Off											
gnd	gnd	nc	x	x	Off	Off	Off	Off	On	Off										
nc	gnd	nc	x	x	Off	Off	Off	Off	Off	On	Off									
gnd	nc	nc	x	x	Off	Off	Off	Off	Off	Off	On	Off								
nc	nc	nc	x	x	Off	On	Off													



**NOTE:**  
With the jumper in position 8 can manage up to 8 decoded outputs with only inputs A, B and C.

**Position 16:** are encoded inputs A, B, C, D if the E input is to GND:

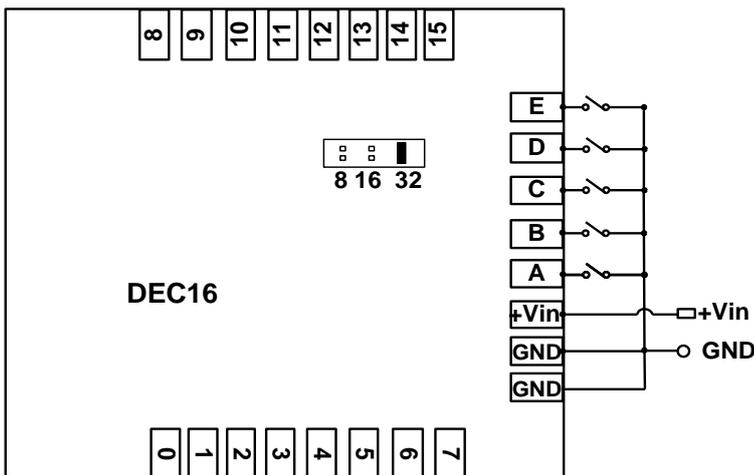
Jumper in position 16																				
A	B	C	D	E	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
gnd	gnd	gnd	gnd	gnd	On	Off														
nc	gnd	gnd	gnd	gnd	Off	On	Off													
gnd	nc	gnd	gnd	gnd	Off	Off	On	Off												
nc	nc	gnd	gnd	gnd	Off	Off	Off	On	Off											
gnd	gnd	nc	gnd	gnd	Off	Off	Off	Off	On	Off										
nc	gnd	nc	gnd	gnd	Off	Off	Off	Off	Off	On	Off									
gnd	nc	nc	gnd	gnd	Off	Off	Off	Off	Off	Off	On	Off								
nc	nc	nc	gnd	gnd	Off	On	Off													
gnd	gnd	gnd	nc	gnd	Off	On	Off													
nc	gnd	gnd	nc	gnd	Off	On	Off	Off	Off	Off	Off	Off								
gnd	nc	gnd	nc	gnd	Off	On	Off	Off	Off	Off	Off									
nc	nc	gnd	nc	gnd	Off	On	Off	Off	Off	Off										
gnd	gnd	nc	nc	gnd	Off	On	Off	Off	Off											
nc	gnd	nc	nc	gnd	Off	On	Off	Off												
gnd	nc	nc	nc	gnd	Off	On	Off													
nc	nc	nc	nc	gnd	Off	On														
X	X	X	X	nc	Off															



NOTA:  
 With the jumper in position 16 can manage up to 16 decoded outputs with A, B, C and D inputs.

**Position 32:** are decoded inputs A, B, C, D if the E input is free (not to GND)

Jumper in position 32																				
A	B	C	D	E	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
gnd	gnd	gnd	gnd	nc	On	Off														
nc	gnd	gnd	gnd	nc	Off	On	Off													
gnd	nc	gnd	gnd	nc	Off	Off	On	Off												
nc	nc	gnd	gnd	nc	Off	Off	Off	On	Off											
gnd	gnd	nc	gnd	nc	Off	Off	Off	Off	On	Off										
nc	gnd	nc	gnd	nc	Off	Off	Off	Off	Off	On	Off									
gnd	nc	nc	gnd	nc	Off	Off	Off	Off	Off	Off	On	Off								
nc	nc	nc	gnd	nc	Off	On	Off													
gnd	gnd	gnd	nc	nc	Off	On	Off													
nc	gnd	gnd	nc	nc	Off	On	Off	Off	Off	Off	Off	Off								
gnd	nc	gnd	nc	nc	Off	On	Off	Off	Off	Off	Off									
nc	nc	gnd	nc	nc	Off	On	Off	Off	Off	Off										
gnd	gnd	nc	nc	nc	Off	On	Off	Off	Off											
nc	gnd	nc	nc	nc	Off	On	Off	Off												
gnd	nc	nc	nc	nc	Off	On	Off													
nc	nc	nc	nc	nc	Off	On														
X	X	X	X	gnd	Off															



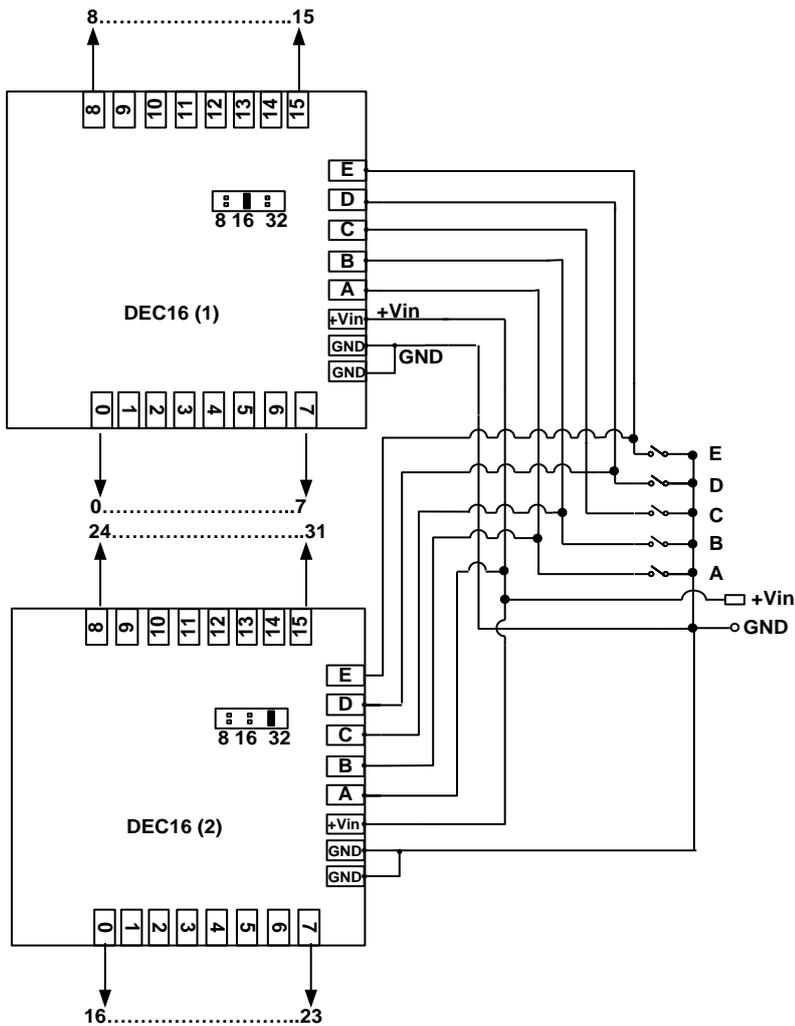
NOTA:  
With the jumper in position 16 can manage up to 16 decoded outputs with A, B, C and D inputs.

## OPTIONS 32 STOPS

If you need to manage more than sixteen outputs (up to a maximum of 32), then we need two DEC16;

The first with the jumper in position 16, and the second at 32.

The input E of both devices must link them together so that when the input E is connected to GND works the first DEC16 (0 to 15). Consequently if the input E is left free (not to GND) operates the second DEC16 (16 to 31)



**VEGA<sup>®</sup>**

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