

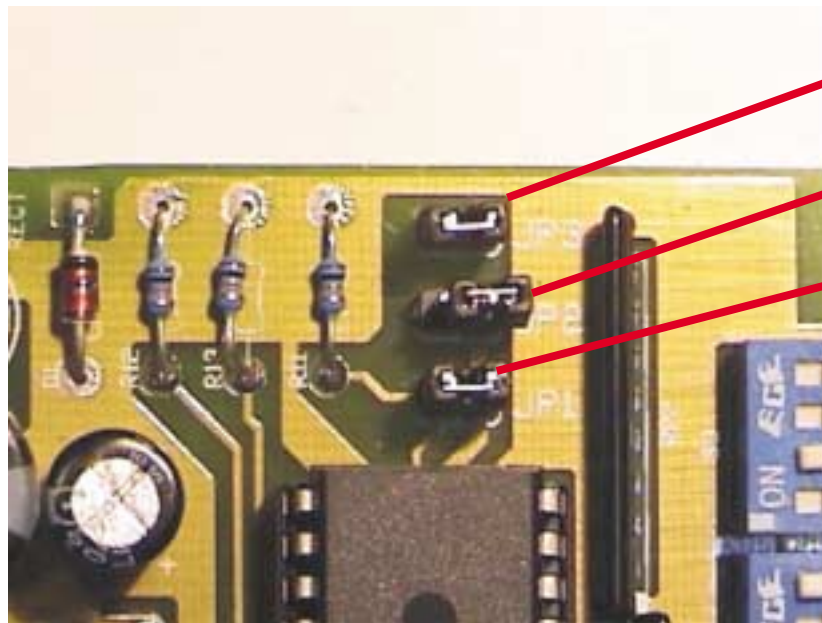
# Manual de usuario de la tarjeta generadora de pulsos. Para Driver D900. (Sig Positec)



Vista de la tarjeta.

## Conexionado.

Jumpers:



Jp3

Jp2

Jp1

Función de Jp1:

Puesto - Velocidad controlada por potenciómetro.  
Sin el jumper - Velocidad controlada por switch S1.

## Función de Jp2 y Jp3:

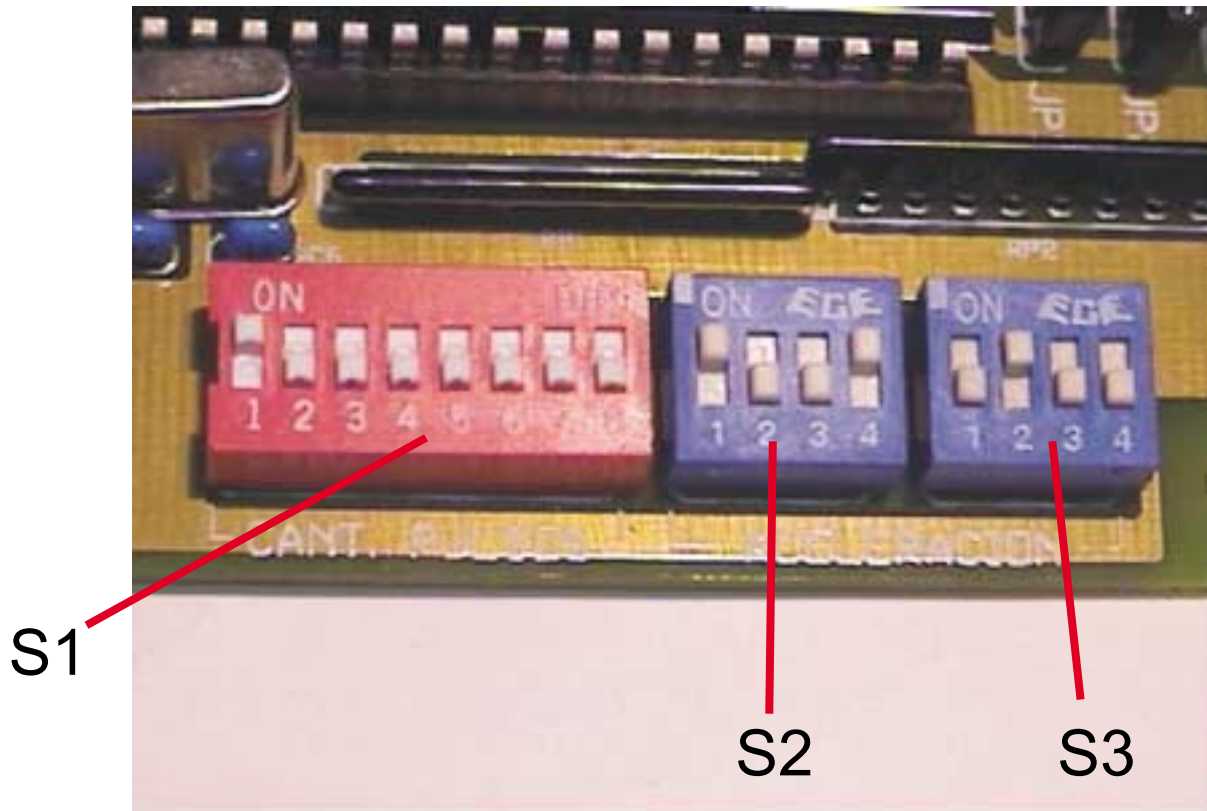
Jp3 Puesto Jp2 no: Parada instantanea al accionar entrada de stop.

Jp2 y Jp3 quitados: Parada con desaceleración.

Jp2 y Jp3 colocados: Para y retrocede hasta nuevo stop.

Jp2 Puesto y Jp3 no: Desacelera y retrocede hasta nuevo stop..

## Switches:



### **El switch S1 cumple dos funciones:**

1- Opera como programador de cantidad de pulsos fija a girar.

2- Cambia el flanco del sensor en que arranca o para el motor.:

Como programador de cantidad de pulsos, cualquier dip (entre el 2 y el 8) que se encuentre en ON cambia la placa a modo de pulsos fijos, la cantidad de estos sera dada por la tabla 1 que se encuentra al final del manual.

Como cambiadora de flancos de sensores, esta atacará los sensores por el flanco de entrada si el dip 1 se encuentra en Off, y atacará a los mismos en su flanco de salida si el dip 1 se encuentra en On.

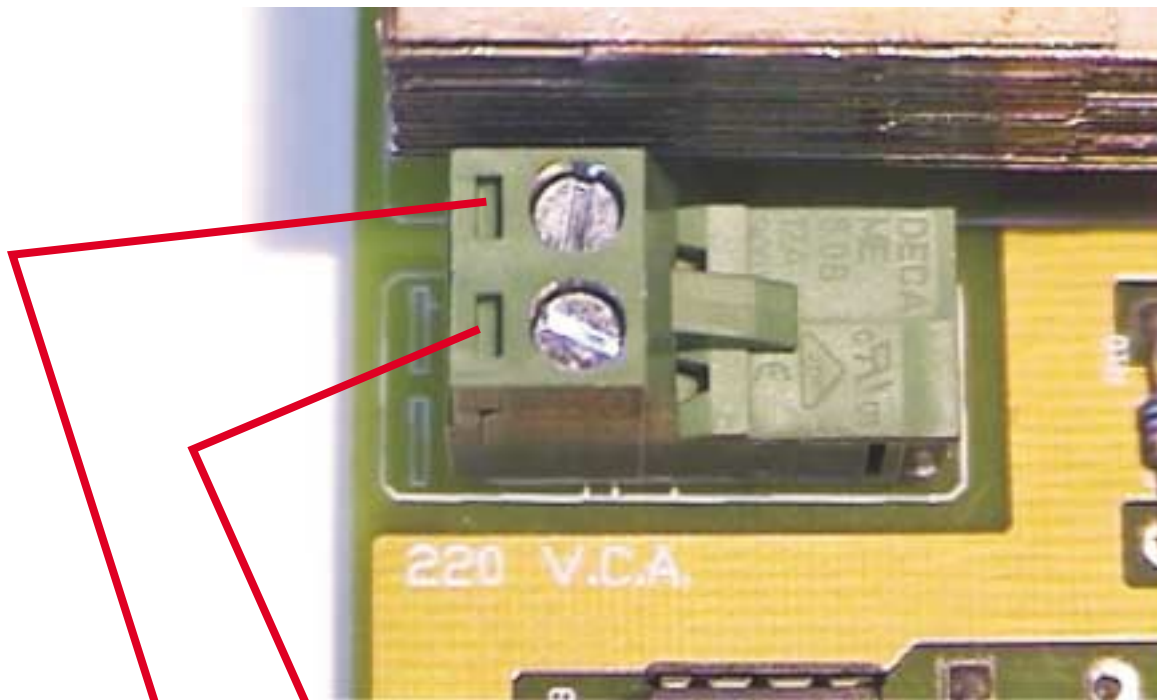
Cabe aclarar que esto solo vale, si se controla la velocidad por potenciómetro.

El switch S2 se usa para fijar la aceleración deseada del motor. La tarjeta posee 20 aceleraciones, las primeras diez vienen dadas por la posición del switch que muestra la tabla 2 ( al final del manual). Las siguientes diez vienen dadas por las mismas posiciones para el switch mas la colocación del switch S3 dip1 en posición de On. (Solo usando potenciómetro para controlar la velocidad).

El switch S3 se usa para fijar la velocidad deseada del motor en el caso de que no se use el potenciómetro para la misma, podrá regular diez velocidades distintas que se corresponden con la posición del switch segun muestra la tabla 3 ( al final del manual ).

## Conexión de las borneras:

### Alimentación:

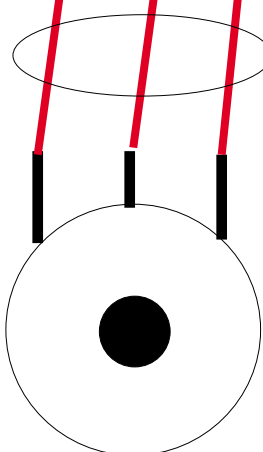
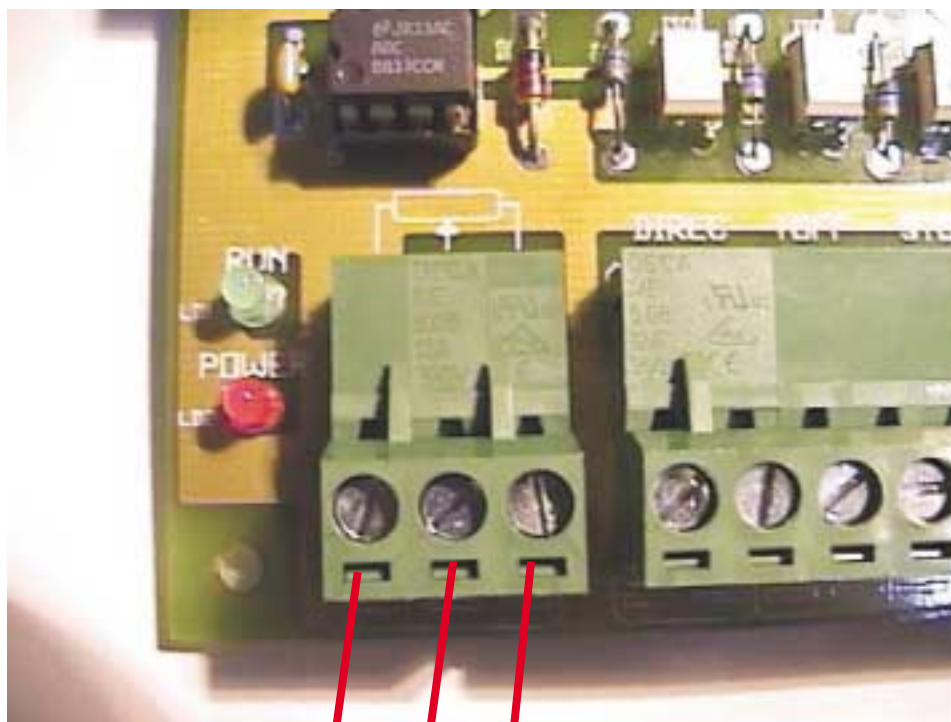


Conectar a 220 VCA

Esta es la única alimentación que necesita la tarjeta.

# Potenciómetro:

El potenciómetro sirve para regular la velocidad deseada del motor, Observe el esquema para su correcto conexionado, se recomienda que los cables de este, sean apantallados, y con un máximo de 50 cm de largo.

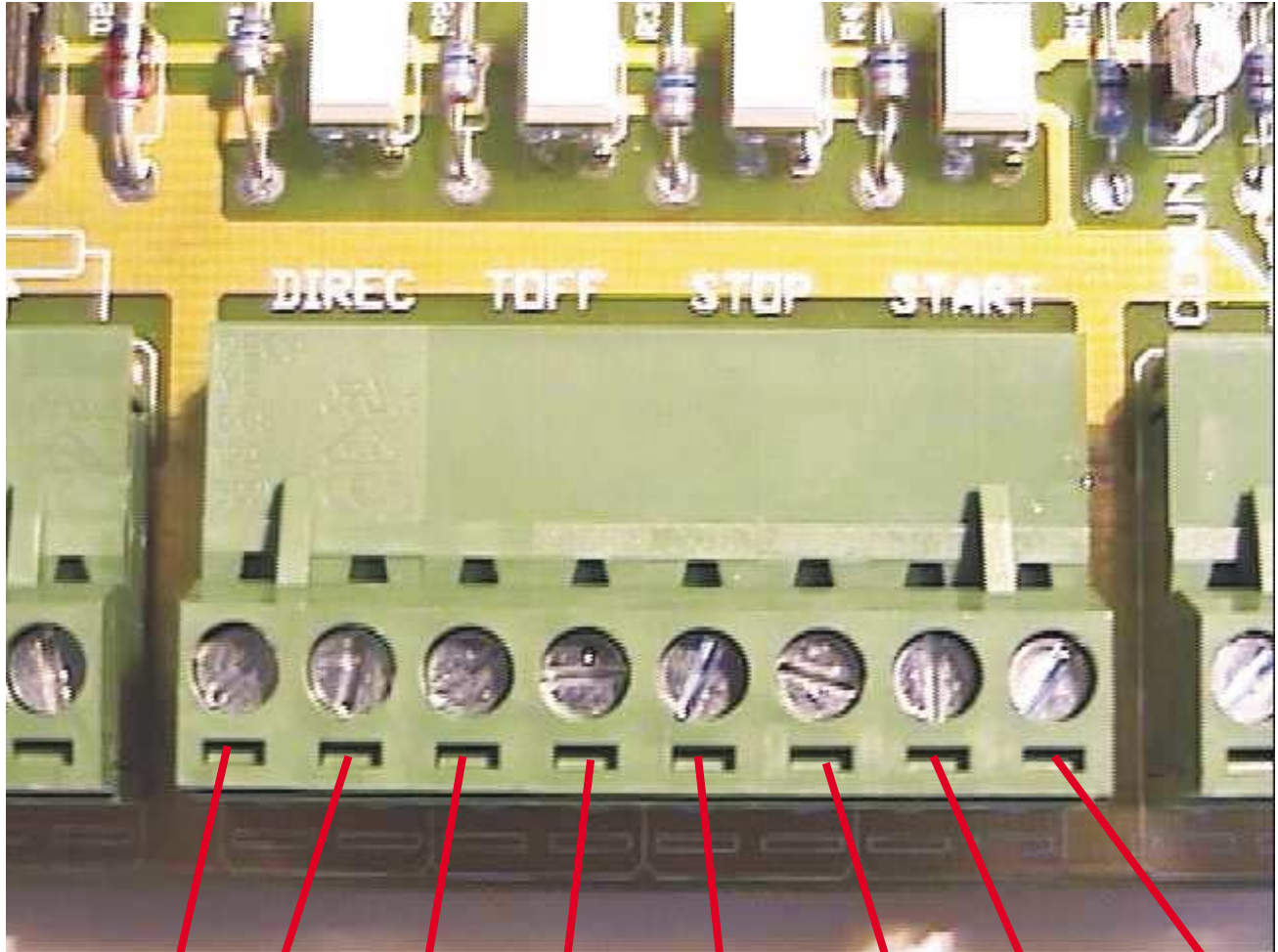


Conexión de la malla a tierra..

Potenciómetro visto con el eje de frente.  
Valor de 10Kohm o menos.



# Controles de dirección de giro, retención de torque parada y arranque de motor:



DIREC +

TOFF +

STOP +

START +

DIREC -

TOFF -

STOP -

START -

Entrada DIREC: Cambia el sentido de giro del motor.

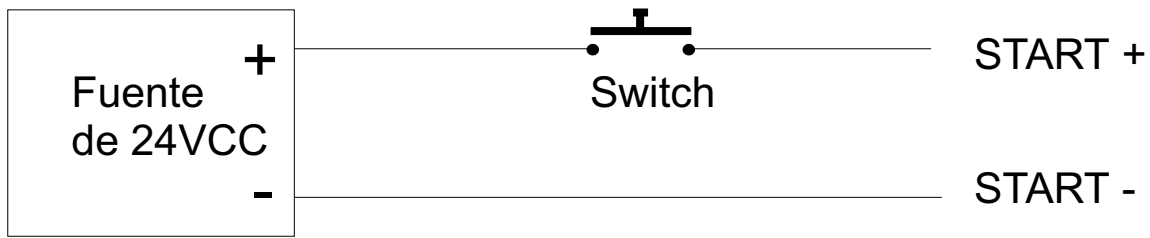
Entrada TOFF: Retiene o libera el torque del motor ( el motor debe tener el torque retenido para poder girar )

Entrada STOP: Detiene el giro del motor.

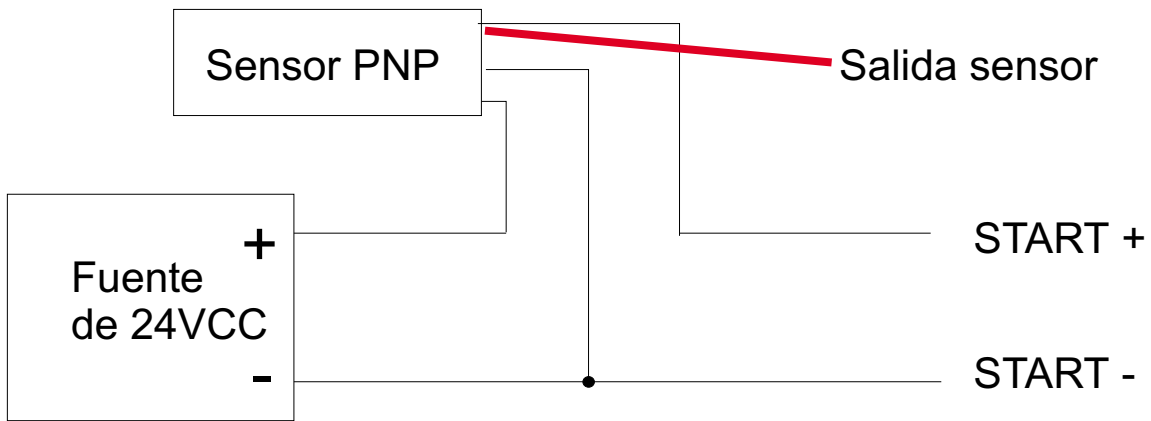
Entrada START: Arranca el giro del motor..

Cualesquiera de estas entradas son comandadas por un impulso de corriente continua de entre 20VCC y 30 VCC respetando la polaridad indicada en la entrada, estos impulsos pueden ser entregados por switches, sensorres, etc..

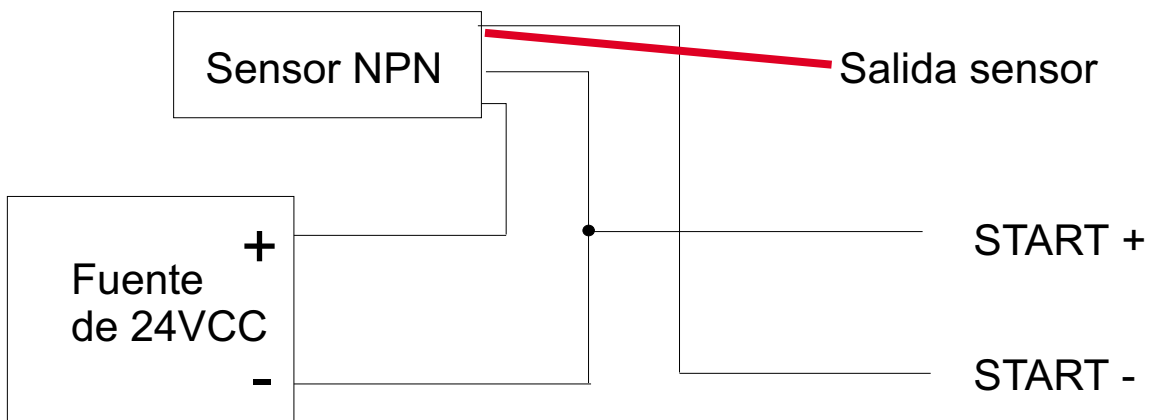
### EJEMPLO PARA ARRANCAR EL MOTOR CON UN SWITCH:



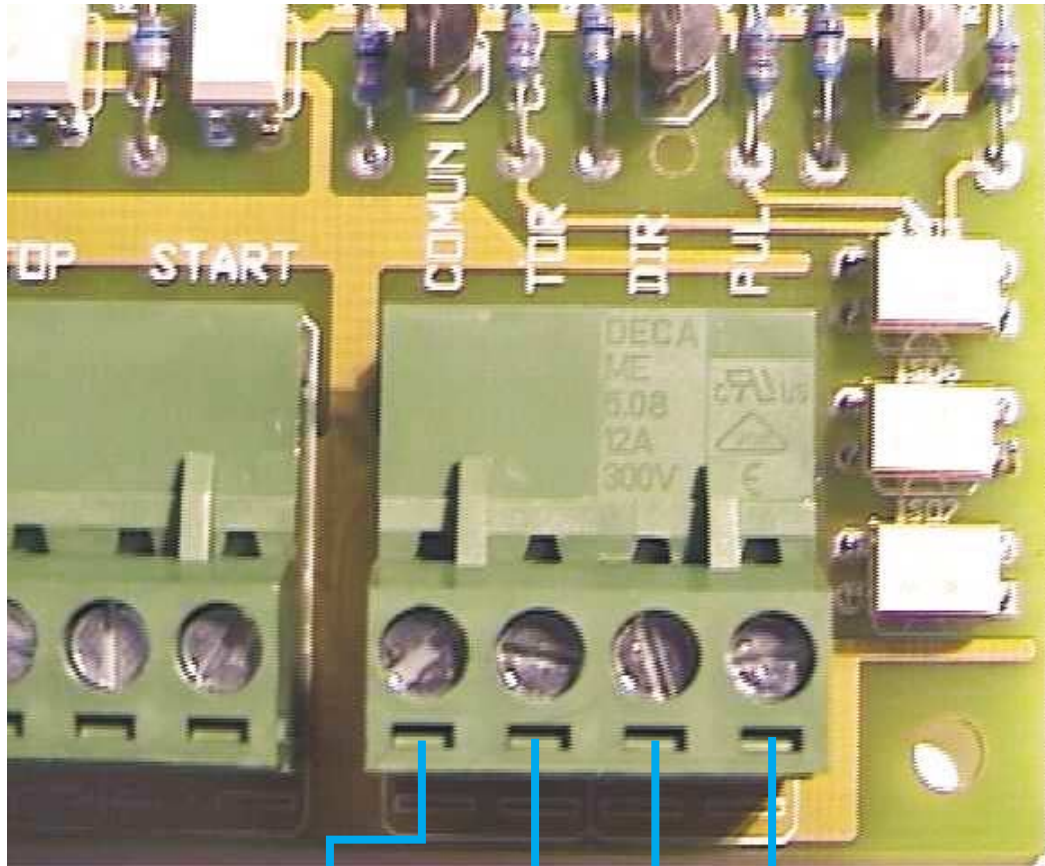
### EJEMPLO PARA ARRANCAR EL MOTOR CON UN SENSOR PNP:



### EJEMPLO PARA ARRANCAR EL MOTOR CON UN SENSOR NPN:

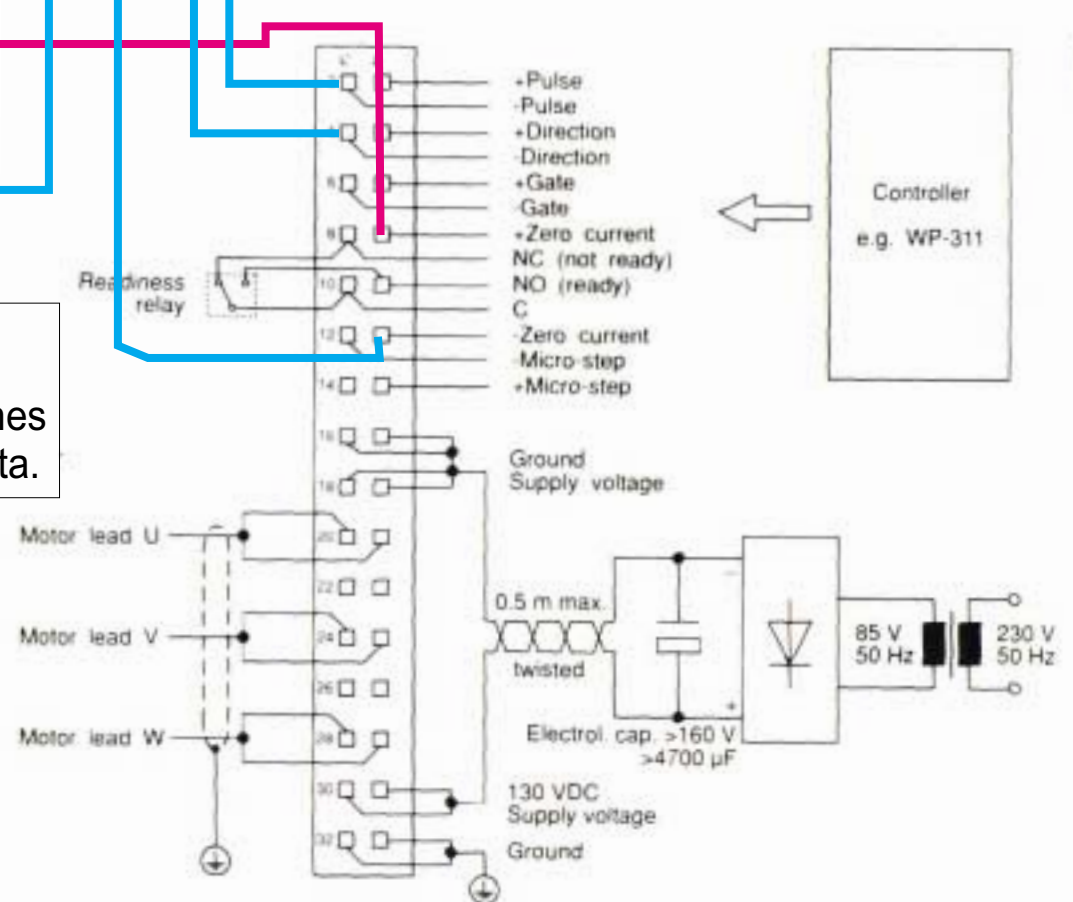


# Conexión de la bornera de salida a driver D900.



Fuente +  
de 24VCC -

— Linea de + 24V  
— Linea de conexiones a bornera de tarjeta.



## Recomendaciones para el uso.

- 1- No exceder el voltaje en las entradas de la tarjeta esto es entre 20 VCC y 30 VCC como máximo.
- 2- No exceder el voltaje de alimentación de la tarjeta esto es entre 180 VCA y 240 VCA.
- 3- No conectar el potenciómetro con mas de 50 cm de cable y usar cable apantallado siempre, conectar la malla del cable a tierra.
- 4- Usar un potenciómetro de buena calidad y con un valor de 10kohm como máximo.
- 5- Si los cables de conexionado al driver D900 superan los 50 cm, usar cable apantallado para este también.
- 6- Alejar siempre las conexiones de entrada y salida de la tarjeta entre ellas, así como también los cables del motor y de los 130VCC de alimentación del driver.
- 7- Colocar la placa sobre un chasis metálico con conexión a tierra del mismo.



Tabla 1								
Int 1	Int 2	Int 3	Int 4	Int 5	Int 6	Int 7	Int 8	Pulsos
on	off	off	off	off	off	off	off	reservado
off	on	off	off	off	off	off	off	2
on	on	off	off	off	off	off	off	3
off	off	on	off	off	off	off	off	4
on	off	on	off	off	off	off	off	5
off	on	on	off	off	off	off	off	6
on	on	on	off	off	off	off	off	7
off	off	off	on	off	off	off	off	8
on	off	off	on	off	off	off	off	9
off	on	off	on	off	off	off	off	10
on	on	off	on	off	off	off	off	11
off	off	on	on	off	off	off	off	12
on	off	on	on	off	off	off	off	13
off	on	on	on	off	off	off	off	14
on	on	on	on	off	off	off	off	15
off	off	off	off	on	off	off	off	16
on	off	off	off	on	off	off	off	17
off	on	off	off	on	off	off	off	18
on	on	off	off	on	off	off	off	19
off	off	on	off	on	off	off	off	20
on	off	on	off	on	off	off	off	21
off	on	on	off	on	off	off	off	22
on	on	on	off	on	off	off	off	23
off	off	off	on	on	off	off	off	24
on	off	off	on	on	off	off	off	25
off	on	off	on	on	off	off	off	26
on	on	off	on	on	off	off	off	27
off	off	on	on	on	off	off	off	28
on	off	on	on	on	off	off	off	29
off	on	on	on	on	off	off	off	30
on	on	on	on	on	off	off	off	31
off	off	off	off	off	on	off	off	32
on	off	off	off	off	on	off	off	33
off	on	off	off	off	on	off	off	34
on	on	off	off	off	on	off	off	35
off	off	on	off	off	on	off	off	36
on	off	on	off	off	on	off	off	37
off	on	on	off	off	on	off	off	38
on	on	on	off	off	on	off	off	39
off	off	off	on	off	on	off	off	40
on	off	off	on	off	on	off	off	41
off	on	off	on	off	on	off	off	42
on	on	off	on	off	on	off	off	43
off	off	on	on	off	on	off	off	44
on	off	on	on	off	on	off	off	45
off	on	on	on	off	on	off	off	46
on	on	on	on	off	on	off	off	47
off	off	off	off	on	on	off	off	48
on	off	off	off	on	on	off	off	49
off	on	off	off	on	on	off	off	50
on	on	off	off	on	on	off	off	51
off	off	on	off	on	on	off	off	52
on	off	on	off	on	on	off	off	53
off	on	on	off	on	on	off	off	54
on	on	on	off	on	on	off	off	55

Int 1	Int 2	Int 3	Int 4	Int 5	Int 6	Int 7	Int 8	Pulsos
off	off	off	on	on	on	off	off	56
on	off	off	on	on	on	off	off	57
off	on	off	on	on	on	off	off	58
on	on	off	on	on	on	off	off	59
off	off	on	on	on	on	off	off	60
on	off	on	on	on	on	off	off	61
off	on	on	on	on	on	off	off	62
on	on	on	on	on	on	off	off	63
off	off	off	off	off	off	on	off	64
on	off	off	off	off	off	on	off	65
off	on	off	off	off	off	on	off	66
on	on	off	off	off	off	on	off	67
off	off	on	off	off	off	on	off	68
on	off	on	off	off	off	on	off	69
off	on	on	off	off	off	on	off	70
on	on	on	off	off	off	on	off	71
off	off	off	on	off	off	on	off	72
on	off	off	on	off	off	on	off	73
off	on	off	on	off	off	on	off	74
on	on	off	on	off	off	on	off	75
off	off	on	on	off	off	on	off	76
on	off	on	on	off	off	on	off	77
off	on	on	on	off	off	on	off	78
on	on	on	on	off	off	on	off	79
off	off	off	off	on	off	on	off	80
on	off	off	off	on	off	on	off	81
off	on	off	off	on	off	on	off	82
on	on	off	off	on	off	on	off	83
off	off	on	off	on	off	on	off	84
on	off	on	off	on	off	on	off	85
off	on	on	off	on	off	on	off	86
on	on	on	off	on	off	on	off	87
off	off	off	on	on	off	on	off	88
on	off	off	on	on	off	on	off	89
off	on	off	on	on	off	on	off	90
on	on	off	on	on	off	on	off	91
off	off	on	on	on	off	on	off	92
on	off	on	on	on	off	on	off	93
off	on	on	on	on	off	on	off	94
on	on	on	on	on	off	on	off	95
off	off	off	off	off	on	on	off	96
on	off	off	off	off	on	on	off	97
off	on	off	off	off	on	on	off	98
on	on	off	off	off	on	on	off	99
off	off	on	off	off	on	on	off	100
on	off	on	off	off	on	on	off	101
off	on	on	off	off	on	on	off	102
on	on	on	off	off	on	on	off	103
off	off	off	on	off	on	on	off	104
on	off	off	on	off	on	on	off	105
off	on	off	on	off	on	on	off	106
on	on	off	on	off	on	on	off	107
off	off	on	on	off	on	on	off	108
on	off	on	on	off	on	on	off	109
off	on	on	on	off	on	on	off	110
on	on	on	on	off	on	on	off	111
off	off	off	off	on	on	on	off	112

Int 1	Int 2	Int 3	Int 4	Int 5	Int 6	Int 7	Int 8	Pulsos
on	off	off	off	on	on	on	off	113
off	on	off	off	on	on	on	off	114
on	on	off	off	on	on	on	off	115
off	off	on	off	on	on	on	off	116
on	off	on	off	on	on	on	off	117
off	on	on	off	on	on	on	off	118
on	on	on	off	on	on	on	off	119
off	off	off	on	on	on	on	off	120
on	off	off	on	on	on	on	off	121
off	on	off	on	on	on	on	off	122
on	on	off	on	on	on	on	off	123
off	off	on	on	on	on	on	off	124
on	off	on	on	on	on	on	off	125
off	on	on	on	on	on	on	off	126
on	on	on	on	on	on	on	off	127
off	off	off	off	off	off	off	on	128
on	off	off	off	off	off	off	on	129
off	on	off	off	off	off	off	on	130
on	on	off	off	off	off	off	on	131
off	off	on	off	off	off	off	on	132
on	off	on	off	off	off	off	on	133
off	on	on	off	off	off	off	on	134
on	on	on	off	off	off	off	on	135
off	off	off	on	off	off	off	on	136
on	off	off	on	off	off	off	on	137
off	on	off	on	off	off	off	on	138
on	on	off	on	off	off	off	on	139
off	off	on	on	off	off	off	on	140
on	off	on	on	off	off	off	on	141
off	on	on	on	off	off	off	on	142
on	on	on	on	off	off	off	on	143
off	off	off	off	on	off	off	on	144
on	off	off	off	on	off	off	on	145
off	on	off	off	on	off	off	on	146
on	on	off	off	on	off	off	on	147
off	off	on	off	on	off	off	on	148
on	off	on	off	on	off	off	on	149
off	on	on	off	on	off	off	on	150
on	on	on	off	on	off	off	on	151
off	off	off	on	on	off	off	on	152
on	off	off	on	on	off	off	on	153
off	on	off	on	on	off	off	on	154
on	on	off	on	on	off	off	on	155
off	off	on	on	on	off	off	on	156
on	off	on	on	on	off	off	on	157
off	on	on	on	on	off	off	on	158
on	on	on	on	on	off	off	on	159
off	off	off	off	off	on	off	on	160
on	off	off	off	off	on	off	on	161
off	on	off	off	off	on	off	on	162
on	on	off	off	off	on	off	on	163
off	off	on	off	off	on	off	on	164
on	off	on	off	off	on	off	on	165
off	on	on	off	off	on	off	on	166
on	on	on	off	off	on	off	on	167
off	off	off	on	off	on	off	on	168
on	off	off	on	off	on	off	on	169

Int 1	Int 2	Int 3	Int 4	Int 5	Int 6	Int 7	Int 8	Pulsos
off	on	off	on	off	on	off	on	170
on	on	off	on	off	on	off	on	171
off	off	on	on	off	on	off	on	172
on	off	on	on	off	on	off	on	173
off	on	on	on	off	on	off	on	174
on	on	on	on	off	on	off	on	175
off	off	off	off	on	on	off	on	176
on	off	off	off	on	on	off	on	177
off	on	off	off	on	on	off	on	178
on	on	off	off	on	on	off	on	179
off	off	on	off	on	on	off	on	180
on	off	on	off	on	on	off	on	181
off	on	on	off	on	on	off	on	182
on	on	on	off	on	on	off	on	183
off	off	off	on	on	on	off	on	184
on	off	off	on	on	on	off	on	185
off	on	off	on	on	on	off	on	186
on	on	off	on	on	on	off	on	187
off	off	on	on	on	on	off	on	188
on	off	on	on	on	on	off	on	189
off	on	on	on	on	on	off	on	190
on	on	on	on	on	on	off	on	191
off	off	off	off	off	off	on	on	192
on	off	off	off	off	off	on	on	193
off	on	off	off	off	off	on	on	194
on	on	off	off	off	off	on	on	195
off	off	on	off	off	off	on	on	196
on	off	on	off	off	off	on	on	197
off	on	on	off	off	off	on	on	198
on	on	on	off	off	off	on	on	199
off	off	off	on	off	off	on	on	200
on	off	off	on	off	off	on	on	201
off	on	off	on	off	off	on	on	202
on	on	off	on	off	off	on	on	203
off	off	on	on	off	off	on	on	204
on	off	on	on	off	off	on	on	205
off	on	on	on	off	off	on	on	206
on	on	on	on	off	off	on	on	207
off	off	off	off	on	off	on	on	208
on	off	off	off	on	off	on	on	209
off	on	off	off	on	off	on	on	210
on	on	off	off	on	off	on	on	211
off	off	on	off	on	off	on	on	212
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off	on	off	on	on	off	on	on	218
on	on	off	on	on	off	on	on	219
off	off	on	on	on	off	on	on	220
on	off	on	on	on	off	on	on	221
off	on	on	on	on	off	on	on	222
on	on	on	on	on	off	on	on	223
off	off	off	off	off	on	on	on	224
on	off	off	off	off	on	on	on	225
off	on	off	off	off	on	on	on	226





Tabla 2				
Int 1	Int 2	Int 3	Int 4	Aceleración
on	off	off	off	1
off	on	off	off	2
on	on	off	off	3
off	off	on	off	4
on	off	on	off	5
off	on	on	off	6
on	on	on	off	7
off	off	off	on	8
on	off	off	on	9
off	on	off	on	10

Tabla 3				
Int 1	Int 2	Int 3	Int 4	Velocidad
on	off	off	off	1
off	on	off	off	2
on	on	off	off	3
off	off	on	off	4
on	off	on	off	5
off	on	on	off	6
on	on	on	off	7
off	off	off	on	8
on	off	off	on	9
off	on	off	on	10