

## SERVO-MOTOR SHIELD - SIGNALS DESCRIPTION

Used connector is an TE Connectivity AMP Connectors model 280385-2



Female connector to be used have the PN: 280366 while pin are: 281556-2

### SIGNALS ON CONNECTOR ON Y1 MALE FRONT VIEW

OPTO1	OPTO1	OPTO2	OPTO2	OPTO3	OPTO3	OPTO4	OPTO4
A1	K1	A2	K2	A3	K3	A4	K4
9	10	11	12	13	14	15	16
1	2	3	4	5	6	7	8
MOT1+	MOT1-	MOT2+	MOT2-	E0_A	E0_B	E0_B	E1_B
OUT1A	OUT2A	OUT1B	OUT2B	ENCODER1	ENCODER1	ENCODER2	ENCODER2

E0 and E1 are encoder quadrature inputs

Ax = Photo coupler anode, Kx = Photo coupler Cathode

All photo coupler have a series resistor of 1500 ohms

## CONNECTION OF A GB37Y3530-12V-83R WITH ENCODER



Servos Motor Shield	GB37Y3530-12V-83R	COLOR
1	1	RED
2	2	BLACK
5	5	YELLOW
6	6	WHITE
Ground	3	GREEN
+5V External supply	4	BLUE

The encoder of this motor requires to be powered at + 5V. It is recommended not to use the same power supply as the microprocessor board. Professional encoders can be powered with the same voltage as the motors.