

DC-MOTOR SHIELD - SIGNALS DESCRIPTION

Used connector is an TE Connectivity AMP Connectors model 280522-2



Female connector to be used have the PN: 280515 while pin are: 281556-2

SIGNALS ON CONNECTOR

MALE FRONT VIEW

		MOT+	MOT+	MOT2+	MOT2+	MOT1-	MOT1-	MOT2-	MOT2-		
GND	GND	OUT1A	OUT1A	OUT1B	OUT1B	OUT2A	OUT2A	OUT2B	OUT2B	POWER	POWER
1	3	5	7	9	11	13	15	17	19	21	23
2	4	6	8	10	12	14	16	18	20	22	24
A1	K1	A2	K2	A3	K3	A4	K4	E0_A	E0_B	E1_A	E1_B

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

POWER accept a maximum voltage range 9 to 20V

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



dcMotorShield	GB37Y3530-12V-83R	COLOR
5-7	1	RED
13-15	2	BLACK
18	5	YELLOW
19	6	WHITE
1	3	GREEN
+5V External supply	4	BLUE
21	9-20V	
2	GND	

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.