1. R57-IO1IR Driver function introduction

R57-IO1IR is a special motion control driver customized for customers by Rtelligent.

R57-IO1IR is the potentiometer speed control function and IO1 control mode.

An adjustable rheostat is connected to the speed regulating port (about 10-20K is recommended), and the voltage is provided by the driver. DIP switch SW6.SW7.SW8 selects the range of speed regulation. Adjust the rheostat to change the real-time speed of the motor.
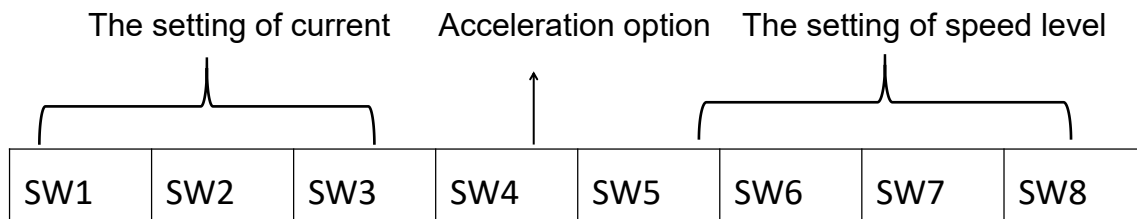
1. Start signal: PUL+, PUL- are connected to 24V continuous level signal, and the motor rotates forward.

2. Direction signal: After the PUL level signal is disconnected, DIR+, DIR- are connected to the 24V continuous level signal, and the motor reverses.

3. Potentiometer: ENA +, ENA - connected to either middle angle or both ends of potentiometer triangle.

1. Control signal wiring

The driver terminals are defined as follows:

Function	Grade	Definition
Power supply input port	V+	Input DC power positive
	V-	Input DC power negative
Motor connection port	A+	Connect two terminals of motor's phase-A winding
	A-	
	B+	Connect two terminals of motor's phase-B winding
	B-	
Potentiometer	ENA+	Middle or right end of potentiometer
	ENA-	Middle or left end of potentiometer
Starting and reversing	PUL+	24V positive
	PUL-	24V negative
	DIR+	24V positive
	DIR-	24V negative

2. The setting of DIP switches and operating parameters

The setting of current   Acceleration option   The setting of speed level

| SW1 | SW2 | SW3 | SW4 | SW5 | SW6 | SW7 | SW8 |

2.1 The setting of current

Peak	RMS	SW1	SW2	SW3	Remarks
1.0	0.7	ON	ON	ON	
1.5	1.1	OFF	ON	ON	
2.0	1.4	ON	OFF	ON	
2.5	1.8	OFF	OFF	ON	Other current can be customized.
3.0	2.1	ON	ON	OFF	
3.7	2.6	OFF	ON	OFF	
4.3	3.0	ON	OFF	OFF	
5.0	3.5	OFF	OFF	OFF	

DIP SW1, SW2, SW3 are used to set current which is output from driver to motor

2.2 The setting of speed level

Speed level RPM	SW5	SW6	SW7	SW8	Remarks
0~50	OFF	OFF	ON	ON	
0~100	ON	OFF	OFF	ON	
0~150	OFF	OFF	OFF	ON	
0~200	ON	ON	ON	OFF	
0~250	OFF	ON	ON	OFF	Other speed can be customized.
0~300	ON	OFF	ON	OFF	
0~400	OFF	OFF	ON	OFF	
0~500	ON	ON	OFF	OFF	
0~600	OFF	ON	OFF	OFF	
0~700	ON	OFF	OFF	OFF	
0~800	OFF	OFF	OFF	OFF	

2.3 Acceleration option

Acceleration level setting		SW4
Acceleration level 1	Low acceleration	OFF
Acceleration level 2	High acceleration	ON

3. Drive installation dimensions

4-Φ3.5

4.5

112

118

22.5

25

76

22.5

33