



ES 白山机电

Q2HB44



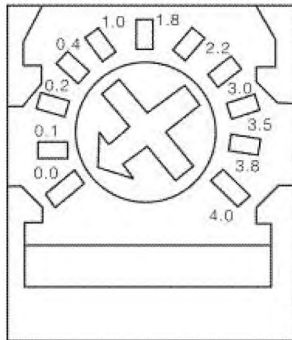
Features

- High performance, low price
- Highest response frequency: 200Kpps
- The motor phase current is reduced to approximately 50% of the set current value 100 ms after receiving the last pulse edge
- Bipolar constant current chopping circuit
- Opto-isolated input/output
- Single power supply, voltage range from DC12V to 40V

Specifications

DIMENSION (UNIT : mm)

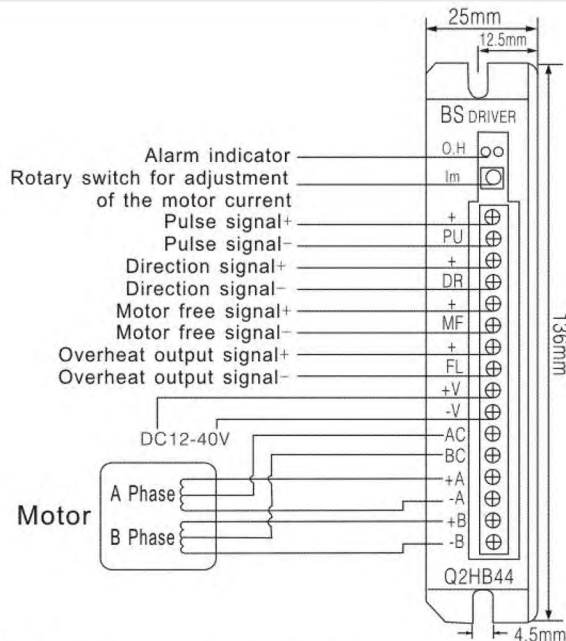
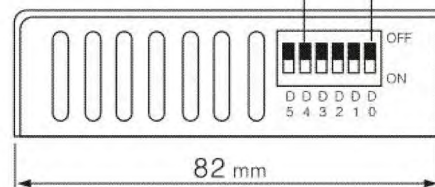
Rotary switch for adjustment of the motor current



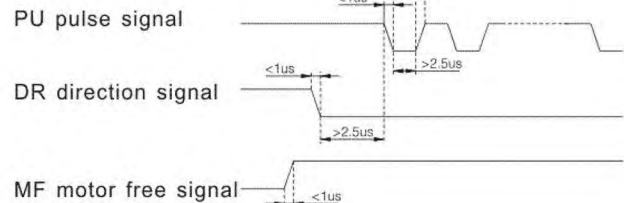
Parameter Switches

Half (OFF) / Full (ON)

OFF: pulse signal+direction signal
ON: positive pulse+negative pulse



Input signal oscillogram



Wiring example

Caution

1. Please don't reverse the power input, supply voltage shouldn't exceed DC40V.
2. Input control signal is 5V, current-limiting resistance should be connected when over 5V.
3. Alarm indicator lights and the drive shuts off if the drive temperature is over 70°C. It dose not work until the temperature falls to 50°C. The heat sink is needed when overheat occurs.
4. 6 or 8 leads motors have to be used because of the special control circuit in the drive.

Parameter switch function



Specifications

Steps per revolution	1 (full step)	2 (half step)
D0	ON	OFF
D4	ON, double pulse : PU is positive pulse signal, DR is negative pulse signal	
	OFF, single pulse : PU is pulse signal, DR is direction signal	

Terminal function

Mark	Function	Specification
O.H	Alarm indicator	The red LED lights when overheat occurs.
Im	Rotary switch for adjustment of the motor current	Adjust motor's phase current. Turning it in CCW will decrease the current and turning it in CW will increase the current.
+	Positive of opto-isolated	Connected to +5V power supply. Driven voltage range from +5V to +24V. Current-limiting resistance is needed when over 5V.
PU	D4=OFF, PU: pulse signal	With the falling edge of the signal PU, the motor executes an angular step. The Input resistance is 220Ω. Low voltage: 0-0.5V, high voltage: 4-5V, pulse width>2.5μS.
	D4=ON, PU: positive pulse signal	
+	Positive of opto-isolated	Connected to +5V power supply. Driven voltage range from +5V to +24V. Current limiting resistance is needed when over 5V.
DR	D4=OFF, DR: direction signal	Change the motor's direction of rotation. Input resistance: 430Ω. Low voltage: 0-0.5V, high voltage: 4-5V, pulse width>200μS
	D4=ON, DR: negative pulse signal	
+	Positive of opto-isolated	Connected to +5V power supply. Driven voltage range from +5V to +24V. Current limiting resistance is needed when over 5V.
MF	Motor free signal	The motor current will be cut off and the drive stops working when it effects.
+	Positive of opto-isolated	The motor current is cut off automatically and signal FL is active (low voltage) when the temperature of the drive is over 70°C. The drive starts to work and the FL is cleared when the temperature falls to 50°C.
FL	Negative of opto-isolated overheat output signal	Connect + to current limiting resistance of output signal and connect FL to ground. The maximum driven current is 50mA, the highest driven voltage is 50V.
+V	Positive of power	DC12-40V

WIRING DIAGRAM AND DRIVING

