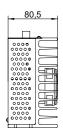
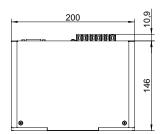
DSH-800 | STEPPING MOTOR DRIVER













MODEL NO. DESIGNATION

NOMINAL CURRENT

Example: DSH-800





STEPPING MOTOR D	RIVER	DATA
Model		DSH-800
Nominal current	Α	8
Max. current	Α	11
Weight	kg	0.8
IP rating		IP20
Operating temperature	°C	0 to 50
	°C	=-

SWITCH	DESCRIPTION	ON SETTING	OFF SETTING
SW9	Standby current setting 20% ~ 80%	N/A	N/A
SW10	Standby current setting 20% ~ 80%	N/A	N/A
SW11	Motor selection	86 mm	110 mm or 130 mm
SW12	Pulse smoothing	Forbid	Enable
SW13	Pulse filter	Enabled low pass filter ≤ 400 Hz	Enabled low pass filter ≤ 100 Hz
SW14	MF Function selection	Off pulse	Off current
SW15	Pulse mode	CW/CCW pulse	Pulse/direction
SW16	Self-test pulse 4.5 kHz	Enable	Forbid

PIN NAME	DEFINITION	FUNCTION	
DIR-	Motor direction signal	SW15 = ON CW pulse signal ³	SW15 = OFF, it is direction control signal⁴
DIR+ 24V/5V	Input signal + (24 V or 5 V)	Connect to 24 V or 5 V power supply	-
PUL-	Pulse signal ²	SW15 = ON, it is CW pulse signal ³	SW15 = OFF, it is pulse signal⁵
PUL+ 24V/5V	Input signal + (24 V or 5 V)	Connect to 24 V or 5 V power supply	-
MF-	Motor free signal	When effective (low level), the motor coil current is turned off and motor free	
MF+ 24V/5V	Input signal + (24 V or 5 V)	Connect to 24 V or 5 V power supply	-
FL+	Fault output signal +	Connect to the output current limiting resistor	-
FL-	Fault output signal -	Connect to the output GND, maximum drive current 50 mA	Maxium voltage 50 V
TM+/TM-	Home output signal +/-	TM+ connect with the resistor Maximum drive current 50 mA	TM- connect to output GND. Maximum voltage 50 V.
A- A+ B- B+	Motor phases connection	-	-
LIN	Power supply	110 - 220 V	-

CAUTION! Input voltage must not not exceed 220 V.

CURRENT LIMIT	SWI	TCH SE	TTINGS														
Nominal current	Α	1	1.5	2	2.5	3	3.3	3.6	4	4.3	4.6	5	5.3	5.6	6	7	8
Max. current	Α	1.4	2.1	2.8	3.5	4.2	4.6	5.0	5.6	6.0	6.4	7.0	7.4	7.8	8.4	9.8	11
SW1		ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SW2		ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF
SW3		ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF
SW4		ON	ON	ON	ON	ON	ON	ON	ON	OFF							

MICRO-STEP SWIT	CH SETT	INCS														
Micro-step/step	1	2	4	8	16	32	64	128	5	10	20	25	40	50	100	125
PUL/REV	200	400	800	1.6K	3.2K	6.4K	13K	26K	1K	2K	4K	5K	8K	10K	20K	25K
SW5	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SW6	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF
SW7	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF
SW8	ON	ON	ON	ON	ON	ON	ON	ON	OFF							

ARM/PWR LED INDICATORS	ı	١

Green LED on	Motor free
Green LED flashes	Motor enabled
Red LED 2 flashes 3 seconds	Undervoltage
Red LED 3 flashes 3 seconds	Overvoltage
Red LED 4 flashes L3 seconds	Overcurrent

NOTES

- 1. Connect only driver and power to motor. Motor should run by internal pulses at 5 kHz. 2. Maximum pulse frequency 400 kHz.
- 2. Maximum jobes flequently 400 kHz.

 3. Effects on falling edge, the motor moves a step when pulse goes from high to low It requires: When connect with 5 V PU+, low level $0 \sim 0.5$ V, high level $4 \sim 5$ V; when connect with 24 V PU+, low level $0 \sim 0.5$ V, high level $20 \sim 24$ V. Pulse width >2.5 μ s.

 4. Used to change motor direction. It requires: When connect with 5 V PU+, low level $0 \sim 0.5$ V, high level $4 \sim 5$ V when connect with 24 V PU+, low level $0 \sim 0.5$ V, high level $20 \sim 24$ V.
- 5. Effective edge can be selected by DP14 in pulse/direction control mode

DIAGRAM

