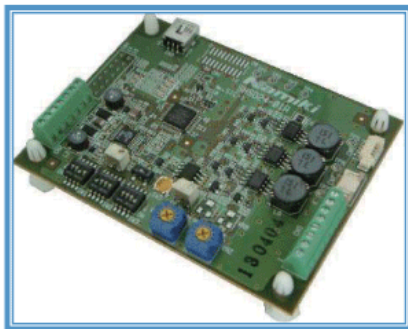


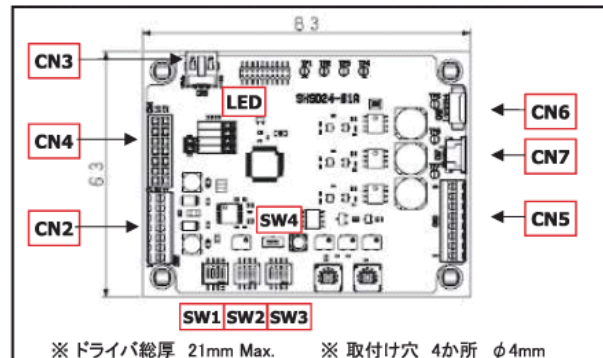
Motor Drive Circuit SHSD24-01A

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Drivers are used to operate and control Brushless Motor.



ブラシレスモーター(センサー有/無) 対応



SHSD24-01A drive controller applies to all Orbray [brushless motors](#). It works both with/without hall sensor and automatically adjust supply voltage when there is a gap between command and actual rotation speed. It is equipped with current limit function for protection and status can be checked by LED/LCD and analog voltage output.

OPERATION MODE

EXT/IO	Rotation speed and direction can be controlled by external input/ output signal.
VR	Rotation speed and direction can be controlled by built-in potentionmeter or switch.
PC	Rotation speed and direction can be controlled through RS232C from PC (software needed).

Driver SDSD24-01A Connector

NAME	FUNCTION
CN2	Power /I/O Connector
CN3	RC232Cconnector
CN4	LCD connector

NAME	MATCHING MOTOR
CN5(8pin)	With hall sensor (BMN07-BMS16)

NAME	MATCHING MOTOR
CN6(4pin)	Sensorless (leadwire)
CN7(4pin)	sensorless FPC (BMN04, BMN07)

[CN2] : Power /I/O Connector

Pin#	NAME	I/O	FUNCTION
1	FG	O	Rotation speed monitor
2	STATUS	O	Status display
3	ENABLE	I	Enable input
4	CW/CCW	I	Switch rotation direction
5	SPEED	I	Rotation speed setting
6	+Vcc	-	Voltage input 7.5V~26.4V
7	GND	-	GND

Driver SDSD24-01A SWITCH

NAME	FUNCTION
SW1	SELECT MOTOR
SW2	SELECT OPERATION MODE / CONTROL
SW3	PI GAIN, SWITCH DIRECTION
SW4	SWITCH OUTPUT VOLTAGE

Driver SDSD24-01A ELECTRIC SPECIFICATIONS

ITEM	SPEC VALUE	UNIT
VOLTAGE (Vcc)	7.5~26.4v	V
CURRENT CONSUMPTION	30	mA
OUTPUT VOLTAGE	3.0~26.4	V
MAX OUTPUT CURRENT	2	A
MAX CONTINUOUS CURRENT	1	A
MAX ROTATION SPEED	150,000	rpm

INPUT / OUTPUT SIGNAL SPEC（EXT/IOモード）

NAME	Pin#	STATUS	SPEC VALUE
FG	CN2-1	0-5V SIGNAL OUTPUT DUTY 83% /	
		ROTATION	
		SPEED[rpm]=FG frequency [Hz] × 60	

NAME	Pin#	STATUS	SPEC VALUE
STATUS	CN2-2	OPERATION	5V
		ERROR	
		OPERATION	Duty50% Pluse 1.0s
		ERROR	
		Standby	0V
ENABLE	CN2-3	OPERATING CONDITION	Duty50% Pluse 0.2s
		ENABLE OPERATION	< 1.00V or GND
		DISABLE OPERATION	> 4.00V or OPEN
CW/CCW	CN2-4	DIRECTION CCW	< 1.00V or GND
		DIRECTION CW	> 4.00V or OPEN
SPEED	CN2-5	SPEED 0rpm	ANALOG VOLTAGE 0V
		MAX SPEED	ANALOG VOLTAGE 5V

LED turns on in case of setting error.

Specifications are subject to change without notice.