



hybrid stepping motor  
**MOONS'**



# SR4/SR8-2 PHSE STEP DRIVER

**Specifications**

**Power Supply:**  
SR4 24-48VDC  
SR8 24-75VDC

**Output Current:**  
SR4 4.5A Peak  
SR8 7.8A Peak

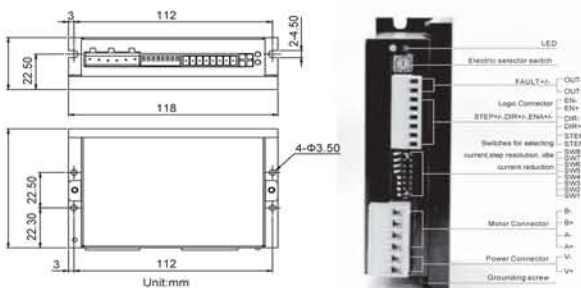
**Protection:**

- Over voltage
- Under voltage
- Over current/motor short
- Motor phase open

**Features**

- **Step & Direction**  
Optically isolated 5-24VDC inputs for step, direction and enable  
Built-in digital signal filter on step and direction
- **Microstepping**  
8 different resolution selectable via switches. other resolutions are available upon request  
Internal microstepping available upon request
- **Running Current**  
8 different current levels selectable via switches. other current level are available upon request
- **Idle Current Reduction**  
50% or 90%
- **Enable Input**  
Disable or enable the drive amplifier  
Reset drive alarm
- **OUT Output**  
Optical isolated output for fault indication
- **Self Test**
- **Motor Selection Via Rotary Switch.** Sets Specific Motor Parameters for Better Performance and Higher Speed.

**Mechanical Outline Connection Interface**



**Recommended Motors**

- |              |              |
|--------------|--------------|
| <b>SR4:</b>  | <b>SR8:</b>  |
| 11HS5008-01  | 23HS0416-01  |
| 14HYB401-03  | 23HS2442-05  |
| 17HD2401-03N | 23HS3422-06  |
| 17HD4435-02N | 24HS5401-10N |
| 17HD6404-05N | 34HD0801-02  |
| 23HS0416-01  | 34HD1801-02  |
| 23HS2442-05  | 34HD2801-05  |
| 23HS3422-06  |              |

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**Electrical Specification**

Parameter		Min.	Typ.	Max.	Unit
Power Supply	SR4	24	-	48	VDC
	SR8	24	-	75	
Output Current (Peak)	SR4	1	-	4.5	Amps
	SR8	2.4	-	7.8	
Input signal Photo Coupler active current		6	10	15	mA
Step Frequency		2	-	2M	Hz
"STEP" minimum pulse width high and low		250	-		ns
"DIR" minimum pulse width		50	-	-	us
Under Voltage Protection		-	20	-	V
Over Voltage Protection	SR4	-	60	-	V
	SR8	-	85	-	
Input Signal Voltage		4.0	-	28	V
"OUT" maximum output current		-	-	100	mA
"OUT" maximum voltage		-	-	30	V

**Running Current Setting**

**SR4**

CURRENT (PEAK)	SW1	SW2	SW3
1A	ON	ON	ON
1.5A	OFF	ON	ON
2A	ON	OFF	ON
2.5A	OFF	OFF	ON
3A	ON	ON	OFF
3.5A	OFF	ON	OFF
4A	ON	OFF	OFF
4.5A	OFF	OFF	OFF

**SR8**

CURRENT (PEAK)	SW1	SW2	SW3
2.4A	ON	ON	ON
3.2A	OFF	ON	ON
4A	ON	OFF	ON
4.8A	OFF	OFF	ON
5.6A	ON	ON	OFF
6.4A	OFF	ON	OFF
7A	ON	OFF	OFF
7.8A	OFF	OFF	OFF

**Microstepping Setting**

Microstep (steps/rev)	SW5	SW6	SW7
400	ON	ON	ON
800	OFF	ON	ON
1600	ON	OFF	ON
3200	OFF	OFF	ON
6400	ON	ON	OFF
12800	OFF	ON	OFF
25600	ON	OFF	OFF
51200	OFF	OFF	OFF