

Automatic Shutters 1 axis / 4 axis Shutter Controller

SSH
SSH-CRA

SSH

RoHS Catalog Code W4045

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These electromagnetic shutters are intended for applications including remote on/off of laser light and for timed exposures.

Requires dedicated shutter controller (SSH-C2B) and cable (SSH-CA2-LOAA) for operation.

- SSH-S is intended for small diameter laser beams ($\phi 4\text{mm}$ or less) while SSH-25RA is intended for use with large diameter imaging lens systems ($\phi 24\text{mm}$ or less).
- Typical applications include holography, exposure of photosensitive materials and as safety measures of laser optical systems.
- By removing the post, the shutters can be installed directly on a base-plate with M3 threads.
- Shutters can be operated with a PC via the two-axis shutter controller (SSH-C2B).



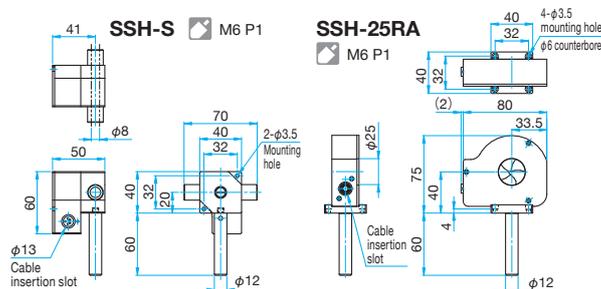
Guide

- ▶ Post length can be changed by specifying the post length when you place an order. We may charge the difference in price depending on the length. Contact our Sales Division for more information.

Attention

- ▶ Automatic shutters cannot be used with high power lasers or high power pulse lasers. Please use high power laser shutters (SHPS).
- ▶ Please always use these automatic shutters with the dedicated controller. Otherwise, these shutters may not operate properly.
- ▶ SSH-25RA cannot operate with the old type shutter controllers (SSH-C4B, SSH-C1R). SSH-S can operate with SSH-C4B.
- ▶ These shutters and controllers do not come with cables.
- ▶ Please order the dedicated cables along with them.

Outline Drawing



Specifications

Primary material: Aluminum
Finish: Black anodized (Finish of blades of SSH-25RA-W Shutter : None)

Part Number	Shutter Type	Aperture Diameter [mm]	Compatible Controller	Shutter Speed [s]	Weight [kg]
SSH-S	Solenoid	$\phi 8$	SSH-C2B	about 0.7 -	0.28
SSH-25RA	Blades type (Black)		SSH-C2B		
SSH-25RA-W	Blades type (Black)	$\phi 25$	SSH-C1RA, SSH-C4RA	0.1 -	0.5

SSH-CRA

RoHS Catalog Code W4120

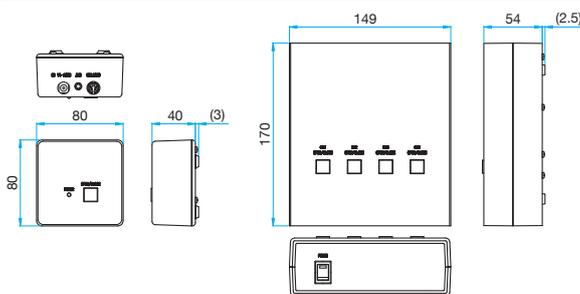


Controller for driving the SSH-RA series electromagnetic shutters.

- Shutters can be manually opened and closed using the shutter buttons on the controller body.
- Shutters can also be opened and closed using a TTL signal from an external controller.
- 4-axis shutter controller (SSH-C4RA) can independently control up to four shutters.



Outline Drawing



Guide

- ▶ Controller does not include a shutter. Compatible only with SSH-RA series auto-blade shutters.
- ▶ Cable to connect the controller and the shutter is not included. Use the dedicated cable (SSH-CA2-LORA). [Reference](#) C069
- ▶ If timer functions are required, we recommend using the SSH-C2B shutter controller. [Reference](#) C069
- ▶ controllers come with AC adapter(DC5V) and 3.5mm Stereo mini plug (for TTL)

Attention

- ▶ This shutter controller is only compatible with the SSH-RA series.
- ▶ Please do not connect to any electromagnetic shutter other than SSH-RA series. Due to differences in the electrical driving characteristics, other shutters can be damaged.
- ▶ Please contact our sales team for TTL cable to be connected to an external device.
- ▶ In SSH-C1RA and SSH-C1RA-H, the logic of TTL connecting to external equipment is inverted. If you need the shutter controller SSH-C4RA with TTL logic inverted, please contact our Sales Division.

Specifications

Primary material: Aluminum
Finish: Black anodized

Part Number	Controllable Number of Units [unit]	Compatible Shutters	External input Signal (TTL)	Power Source [V]	Power consumption [VA]	Weight [kg]
SSH-C4RA	4	SSH-RA	Open/Close:0/5V	DC5	1	0.45
SSH-C1RA	1	SSH-RA	Open/Close:0/5V	DC5	0.25	0.07
SSH-C1RA-H	1	BSH2	Open/Close:5/0V	DC5	0.25	0.07