

SPECIFICATION

DALI 4-Channel Switch Actuator Module

Model: HSAB55-D-4

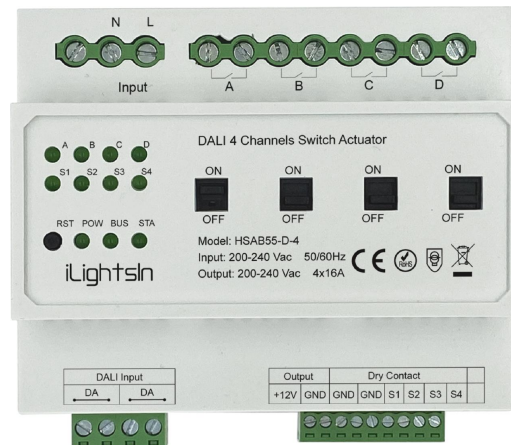
Version: V1.6

Issue Date: 2023-06-05

PREPARED	R&D CHECKED	APPROVED
		

1. Features

- Input 200-240Vac
- Output 200-240Vac
- 4 channels 16A magnetic latching relay
- Mechanical manual switch
- Support dry contact control
- DALI standard protocol
- Support APP control by DALI master
- LED indicator of each channel status
- Support schedule for each channel
- 35mm standard mounted rail
- Operating Temperature -20℃ ~ 60℃

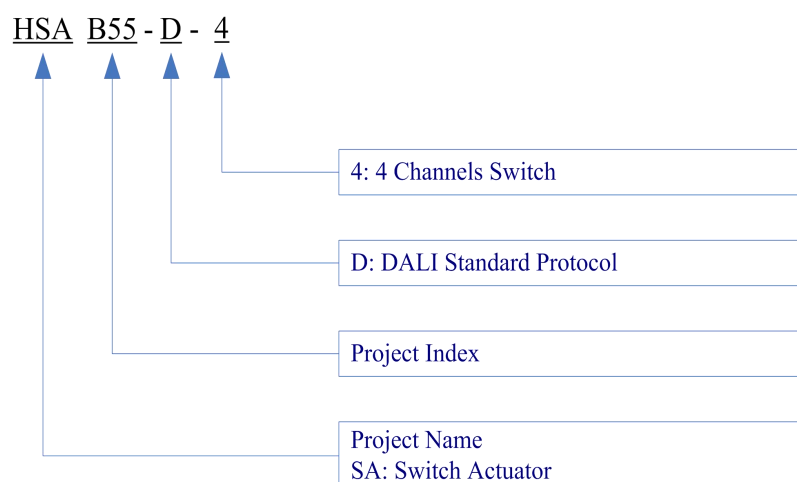


2. Product Description

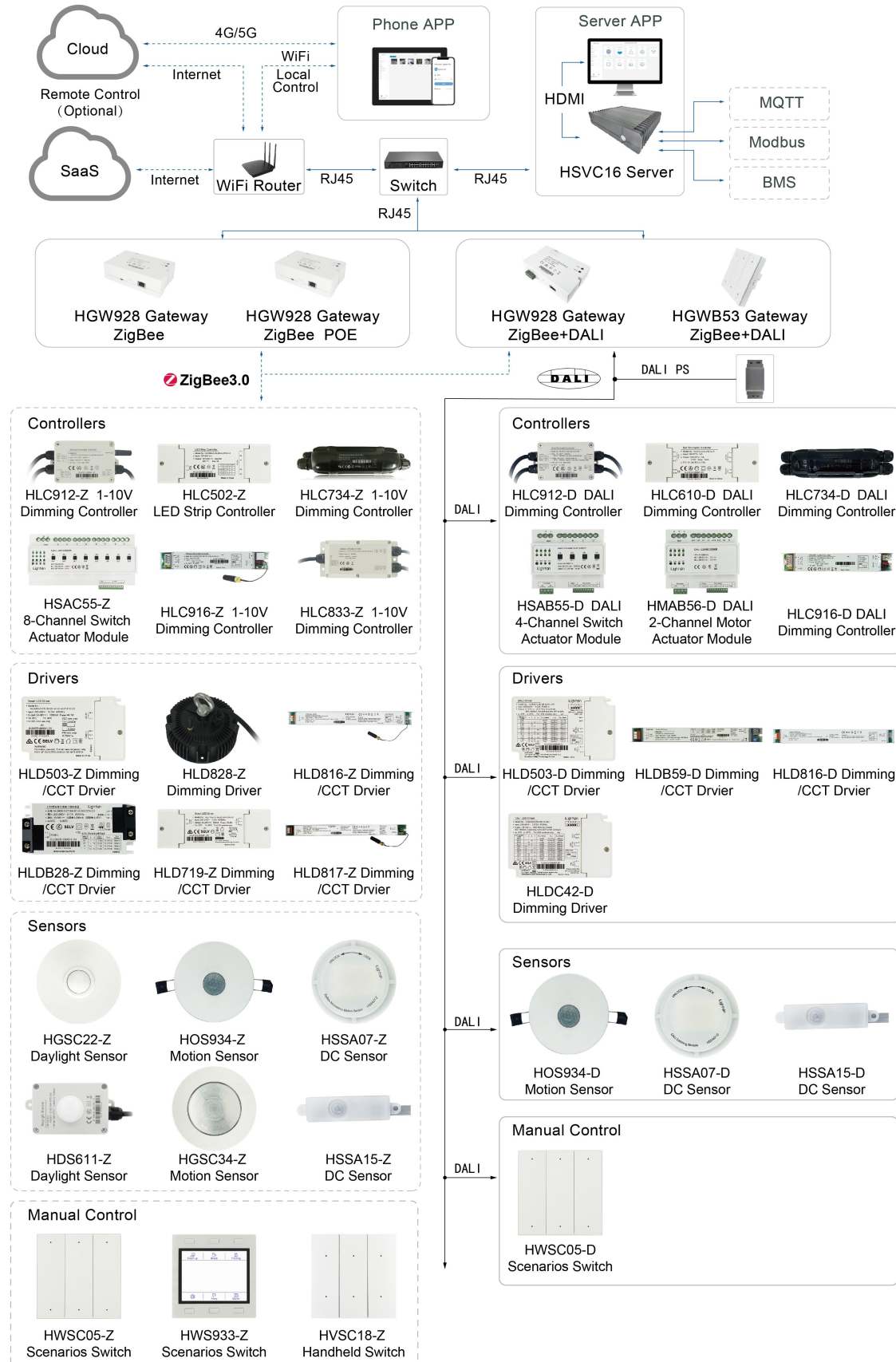
HSAB55 is an AC input and 4 channels switch actuator based on DALI protocol. The maximum control current of each circuit is 16A and applicable to on-off control for 16A and below equipment.

- Magnetic retention function. There is no relay control current on working status.
- Each relay has a mechanical manual switch for emergency operation.
- Each channel can be controlled by external dry contact.
- Support DALI standard protocol with channel/channels of device, group and scene control.
- Work with HOMA HGW928 dual-mode gateway for local/remote control, scene, schedule or other functions through mobile and server application.

3. Part No.



4. Diagram

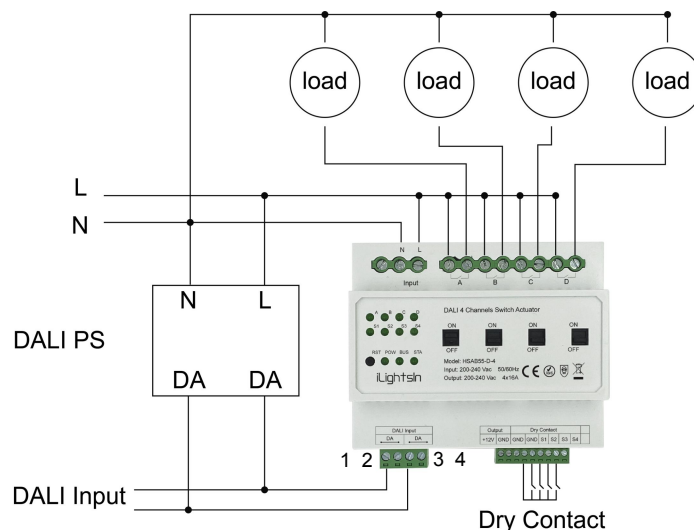


5. Parameters

Model	HSAB55-D-4
Input Voltage(V)	200-240Vac
Output Voltage(V)	200-240Vac
Output Channel	4 channels magnetic latching relay Each channel/16A MAX (Resistive load)
Channel	4
Control Distance	DALI Bus 300m
Operation Life	100,000 times
DC Voltage Output Interface	12V 100mA MAX
Standby Power	0.5W
Surge Protection	Line to line 1kV
Isolation Voltage	3750V
Dry Contact Interface	Passive Dry contact
Operating Temperature	-20℃ ~ 60℃
Operating Humidity	5%-85%RH
Storage temperature	-40℃ ~ 85℃
Storage Humidity	0% ~ 90%RH
IP Level	IP20
Housing Material	PCV0
Installation Mode	35mm mounted rail
Outdoor	NOT ALLOWED
Net Weight	323 g
Gross Weight	353 g
Product size	107*96.6*64mm
Package size	112*100*72mm

6. Input/Output Definition

a. Wiring Diagram



b. Terminal Definition

Terminal Name		Terminal Description
AC IN	L	Input AC200-240V L
	N	Input AC200-240V N
Channels	A	On/Off Output AC200-240V 16A MAX
	B	On/Off Output AC200-240V 16A MAX
	C	On/Off Output AC200-240V 16A MAX
	D	On/Off Output AC200-240V 16A MAX
DALI Bus Input	DA	DALI Bus (1 and 2 are connected in parallel)
	DA	DALI Bus (3 and 4 are connected in parallel)
DC Output	+12V	Output DC 12V 100mA MAX
	GND	GND
Dry Contact	GND	Dry Contact GND
	S1	Control the channel A ON/OFF
	S2	Control the channel B ON/OFF
	S3	Control the channel C ON/OFF
	S4	Control the channel D ON/OFF

7. LED Indicator Status

LED Indicator		LED Indicator Status	Comments
A	A Channel Load	ON: The LED indicator keeps on OFF: The LED indicator keeps off	1、The LED indicator will flash 5 times when TEST this channel in APP. 2、The channel LED indicator will keep on/off if current channel dry contact control.
B	B Channel Load		
C	C Channel Load		
D	D Channel Load		
S1	Dry Contact S1 A	The LED indicator flashes once when that channel dry contact is pressed.	
S2	Dry Contact S2 B		
S3	Dry Contact S3 C		
S4	Dry Contact S4 D		
RST	Reset Button	Long press 10s to Reset	STA LED indicator keeps flashing after resetting successfully.
POW	Power Indicator Light	The LED indicator keeps on after main power on.	
BUS	Bus Indicator Light	The LED indicator keeps flashing when the bus has DALI DATA.	If DALI bus is disconnected, both "BUS"、"STA" LED indicator will keep flashing after 50 seconds.
STA	Status Indicator Light	1、The LED indicator keeps flashing if the device is initial state. 2、The LED indicator keeps on when the device is searched into gateway.	

8. Software Operation

- Switch Actuator is power on, "STA" LED Indicator will keep flashing meaning the device is initial state.
- Gateway is power on, please open iLightsin Pro APP in the same LAN. Search the gateway and log in with Name: Admin and default password: 00000000.
- Search the Switch Actuator device in APP based on the connected DALI channel.
- The searched switch actuator devices will be displayed in the application.
- For more detailed operation, please refer to "iLightsin Pro User Guide.pdf"

9. Device Reset

Two methods for Switch Actuator to restore factory settings (Initial state):

- Make sure both Switch Actuator and Gateway are power on, and delete the Switch Actuator device in "Editing Device" under the "Setting Menu" in the APP, and confirm successfully deleted.
- If Switch Actuator is not in initial state (this time "STA" Indicator Light will not keep flashing) when power on, then long press the "RST" button for 10 seconds. If the "STA" LED indicator keep flashing, meaning reset successful.

10. Dimensions

