

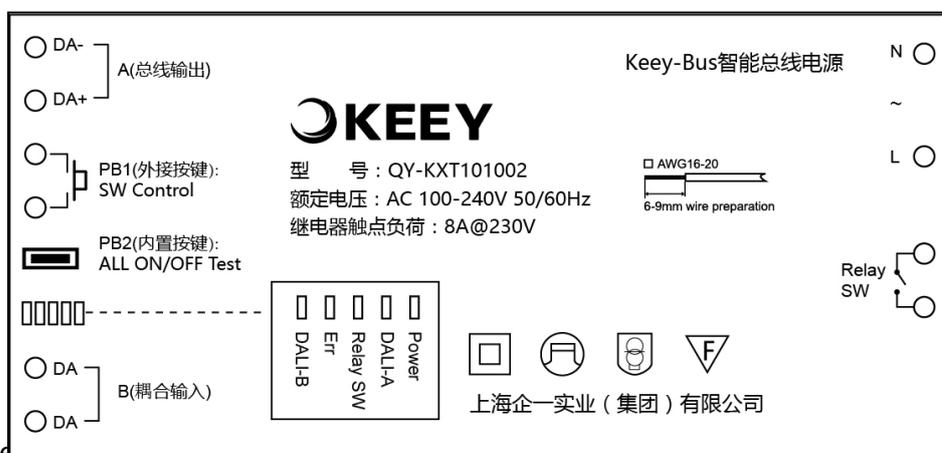
- Description

- As a standard bus power supply for DALI, it provides 16V voltage and 0-250mA supply current for the DALI bus.
- With overload and short circuit protection, the device will alarm when short circuited.
- Has 1 channel relay output control function, does not occupy any DALI address, but has the following lighting power supply circuit cut-off functions.
 1. When the "All-off" DALI command is detected, the relay output will be cut off after a delay of 30 seconds.
 2. When other DALI commands (not "All-OFF") are received, if the relay output is off, the relay output is immediately turned on, and the signal is resent to the DALI bus after a delay of 1 s.
- With a button interface to manually control relay on/off output.
- With the ability to couple another DALI bus, the user can customize the logic of the coupling.
- With multiple LED indicators to visually determine the working status of the bus power supply.

- Technical Parameters

AC input voltage	100~240VAC	Executive standards EN 55015 EN 61547 EN 61000-3-2 EN 61000-3-3 EN 61347-2-11 EN 62386-101
AC input frequency	50/60Hz	
Power consumption	8W (Max)	
Output DALI Bus current	<250mA	
Output DALI Bus voltage	16V±5%	
Relay contact rated current (resistive load)	10A@230VAC	
DALI-A bus output protection	Short circuit protection, self recovery	
Operating temperature	-10°C ~ +50°C	
Storage temperature	-20°C ~ +60°C	
Protection level	IP20	

- 功能选择



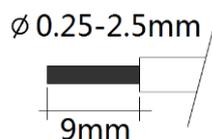
Definition of input/output ports

Type	Port name	Function description
(AC) Input	N / L	AC100-240V Input line

(External button) Input	PB1	External push button interface port, each time the button is touched, the relay switch contact (Relay SW) can be turned on and off alternately.
(built-in button) Input	PB2	Built-in test button, each time the switch is touched, the DALI commands "ALL-MAX" and "ALL-OFF" are alternately sent to the DALI bus from the DA-A port.
(DALI coupling) Bus input	(DA/DA) B	For couple another DALI bus to A port of DALI Bus, the user can customize the logic of the coupling. This device does not provide any current supply to the B port's DALI BUS.
DALI Bus output	(DA+/DA-) A	Provides 16V voltage and 0-250mA supply current for DALI Bus port A, Perform the coupling logic from DALI Bus port B to DALI Bus port A.
(relay contact) Switch Output	Relay SW	Relay on/off switch for lighting power supply circuit cut-off functions. 1) When the "All-off" DALI command is detected, the relay output will be cut off after a delay of 30 seconds. 2) When other DALI commands (not "All-OFF") are received, if the relay output is off, the relay output is immediately turned on, and the signal is resent to the DALI bus after a delay of 1 s.

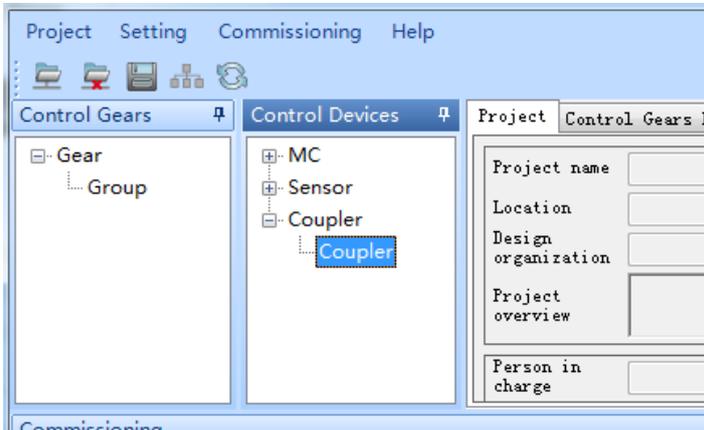
Function of LED indicators

Name	Function description
DALI-B	Indicates the working status of the DALI-B port: Normal (off); Communicating (flashing); Disconnected (on).
Err	Indicates the fault status of the DALI-A port: Normal (off); Bus overload current >200mA (flashing every 1 second); Bus voltage is abnormal (flashing every 0.5 seconds).
Relay SW	Indicates the status of the relay output: Disconnect (off); turn on (on).
DALI-A	Indicates the working status of the DALI-A port: Normal(off); Communicating (flashing); Fault (on).
Power	Indicates the power-on status of the device: Power on (on); power off (off).

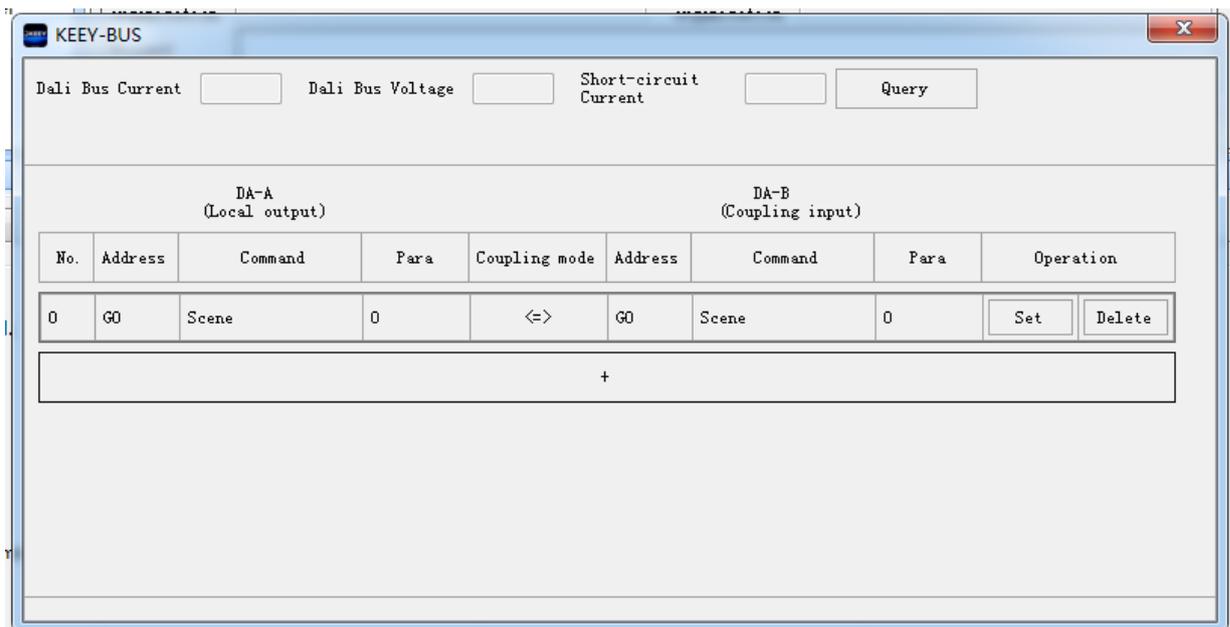


- Software configuration guide

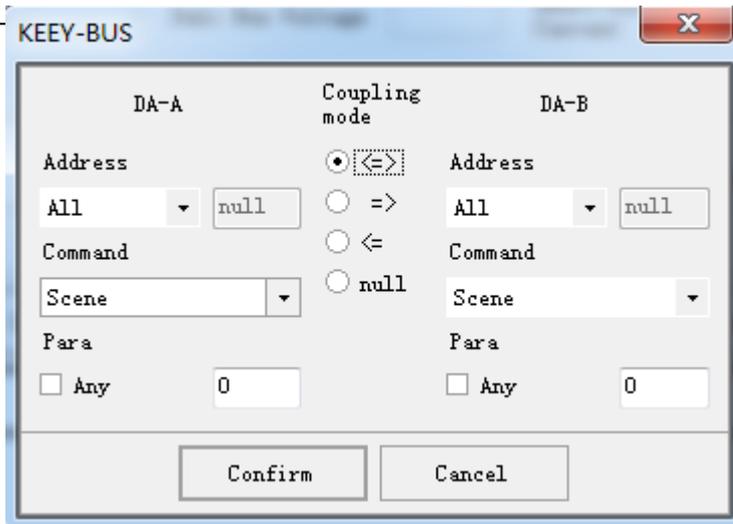
Step 1: When the system configuration software reads all the data on the DALI bus, click on the Coupler icon in the Control Devices tree.



Step 2: In the dialog window that pops up, configure the coupling rules for the coupler DALI BUS A port and B port.

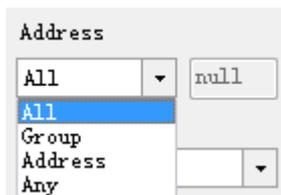


- Click the Query button to query the values of standby current, voltage, and short-circuit current of the DALI BUS connected to A port. If the current exceeds 200MA and the voltage is lower than 14.5V, an alarm prompt "Overload!" appears;
- "Click "+" to enter the new coupling rule (logical) configuration interface. The function includes configuring the coupling command and coupling mode between the DALI BUS-A port and the DALI BUS-B port.
- Click the "Set" button to modify the configured coupling rule.
- Clicking the "Delete" button will delete the configured coupling rule.

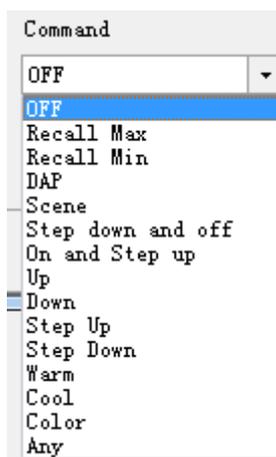


● Coupling mode:

1. “<=>” means that A port and B port transmit in both directions. When there is a corresponding DA-A command on the DALI-A bus, the device will send the corresponding configured DA-B command on the DALI-B bus. vice versa.
2. “=>” means that A port transmits to B port in one direction, that is, the device will send the corresponding configured DA-B command on the DALI-B bus only when there is a corresponding configured DA-A command on the DALI-A bus. .
3. “<=” means that B port transmits to A port in one direction, that is, the device will send the corresponding configured DA-A command on the DALI-A bus only when there is a corresponding configured DA-B command on the DALI-B bus. .
4. "null" means that A port and B port are not coupled to each other;



- Address setting of DA-A and DA-B: Optional items include All, Group, independent Address and Any, Any means that anyone of the above DALI address.

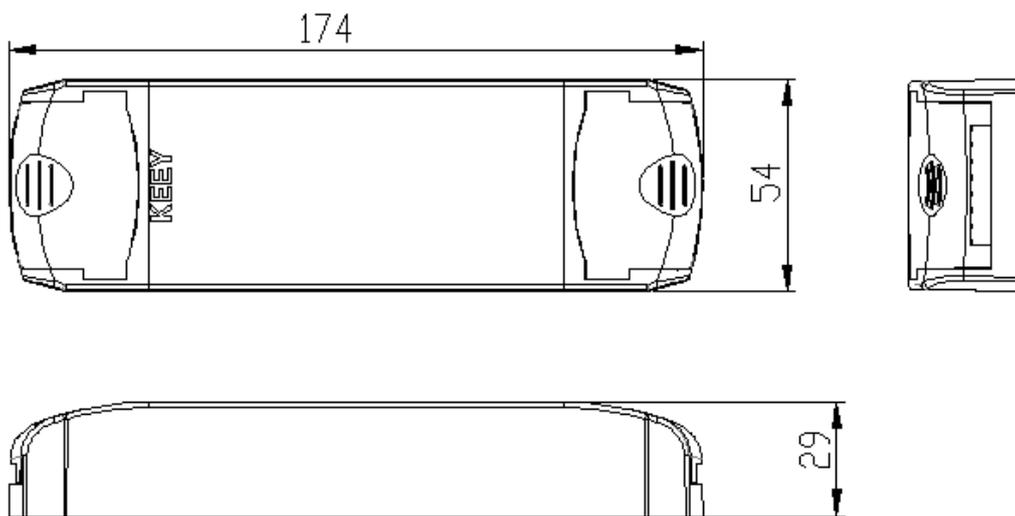


- Command setting of DA-A and DA-B: Optional items include 14 types of standard DALI control commands, Any means that anyone of the 14 types DALI control commands.

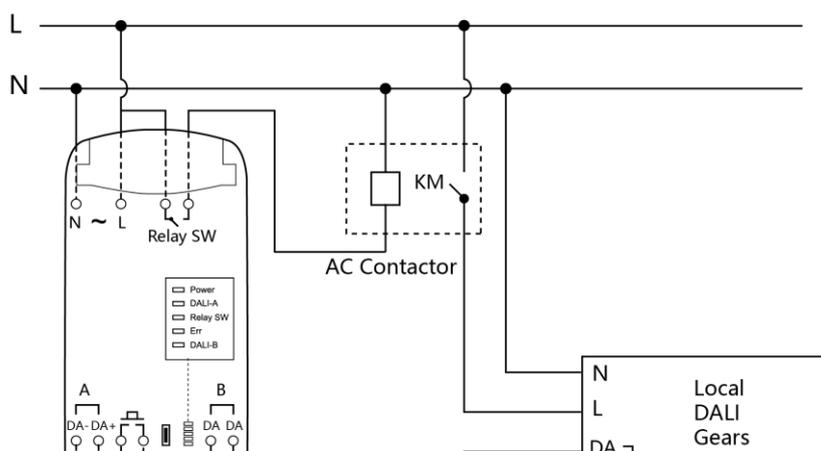
Para
 Any

Para: Parameter setting of control instructions, When ANY is checked, the parameter is any legal value.

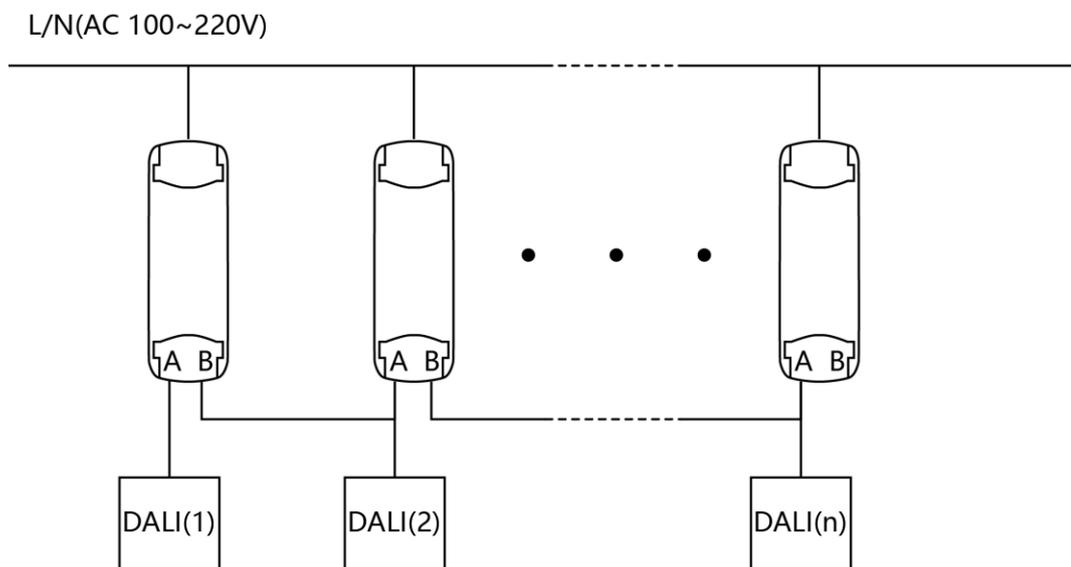
- Dimension



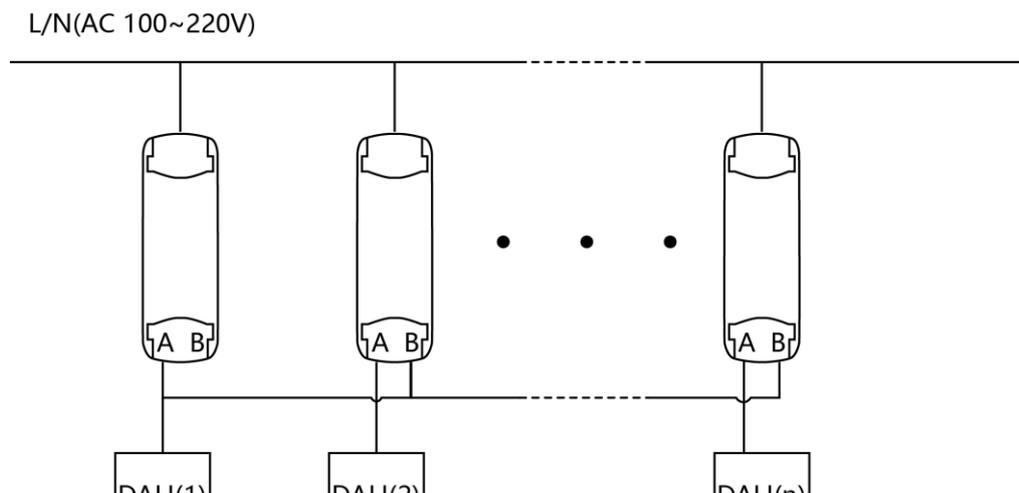
- Installation and application examples



DALI Bus Coupler wiring diagram



Wiring diagram of 1-to-1 coupled transmission for multiple DALI systems connection



Wiring diagram of 1-to-all coupled transmission for multiple DALI systems connection