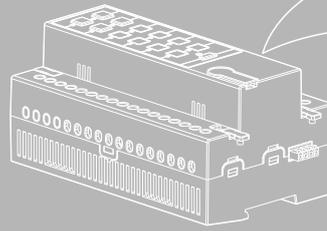
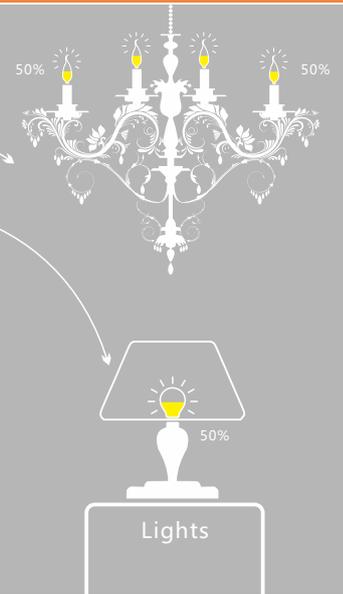


Dimmer to Change Light Level (intensity) 50% Up & Down



S-Bus System



How to Calculate Your Load?

Depending on your Country Voltage, and According to your Fixture Voltage and Wattage as well as the Number of Fixtures, you can Calculate the Load

Example:

if your Voltage is 220VAV, and you are Having One Bulb in Middle of Ceiling (that Bulb is 100Watts as Example) . Then your Load = $100W/220V=0.46$ Amp
 if your Voltage is 110VAC, and you are Having One Bulb in Middle of Ceiling (that Bulb is 100Watts as Example) . Then your Load = $100W/110V=0.91$ Amp
 if your Voltage is 24VDC, and you are Having 4 Ceiling Spots (that LED Bulb is 3Watts Each as Example) . Then your Load = $4 \times 3W/24V= 0.5$ Amp

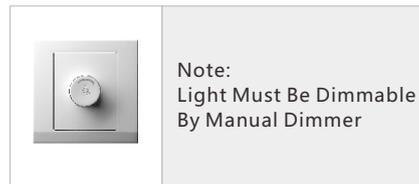
How To Select a Automation Module to Control your Light Fixtures?

There are many Lighting Types in the market, Different Types require Different Control Modules , Accordingly here is some recommendation:

For Light Types that you like to Dim:



Recommendation:
Add Flicker Suppressor
For LED Channels



Note:
Light Must Be Dimmable
By Manual Dimmer

Examples: Chandler, Down light, Wall Light, Table Light, Standing Light, Spike Lights ++

What to Select	Limits Instructions Recommendations	Max Wattage per Circuit Channel Fold 220V	Recommended Product	Model	How Many It Can Control	Products CE	Barcode
Dimmer Module	Small Loads	400 W	Trail Click -1D	SB-1D-TC	1 Channel - 2A		
Dimmer Module	Small Loads	200 W	Trail Click -2D	SB-2D-TC	2 Channels 1A Each		
Dimmer Module	Small Loads	200 W	8Ch Dimmer	SB-DIM8c1A-DN	8 Channels 1A Each		
Dimmer Module	Normal Ch. Loads	400 W	6Ch Dimmer	SB-DIM6c2A-DN	6 Channels 2A Each		
Dimmer Module	Meduim Loads	600 W	4Ch Dimmer	SB-DIM4c3A-DN	4 Channels 3A Each		
Dimmer Module	High Loads	1200 W	2Ch Dimmer	SB-DIM2c6A -DN	2 Channels 6A Each		
Dimmer Module	Very High Loads	2200 W	1 Channel Dimmer	SB-DIM1c10A -DN	1 Channel - 10A		



For Ballast Driven Light Types That you Like to Dim:

			
✓ Flourecent	✓ Ceiling Tiles	✓ Neon Tubes	✓ Metal Halide

	Note: Ballast Must Be Dimmable & controllable + Addressable Type
--	---

Examples: Ceiling Tile Lights, Cove Lights, Signage Lights ,Tube Lights ++

What to Select	Limits Instructions Recommendations	Max Wattage per Circuit Channel Fold 220V	Recommended Product	Model	How Many It Can Control	Products 	Barcode
Voltage Analogue Module	Very High Loads	Depends on Device Ballast Load	Trail Click -1D	SB-6B0-10V-DN	6 Channel - 16A Max		
DALI Bridge	Protocol Integration Only	Not Relative to our Controller	DALI Bridge	SB-DALI-DN	64 Channels, Broadcast		

For Colored and Multi Function Light Types:

			
✓ LED Strip	✓ RGBW	✓ Moving.Head	✓ Stage Lights

Examples: Colored LED Lights, Decorative Lights, Colored Lights, Fiber Optics, Disco Lights, Building Lights, Garden and under Water Lights ++

What to Select	Limits Instructions Recommendations	Max Wattage per Circuit Channel Fold 220V	Recommended Product	Model	How Many It Can Control	Products 	Barcode
LED Driver	Normal Ch. Loads	12 Watts for 12V Type 24 Watts for 24V Type	LED Dimmer	SB-4LED-DCV	4 Channels 1A Each		
DMX-Voltage Driver	High Loads	48 Watts for 12V Type 96 Watts for 24V Type	DMX - LED Dimmer	OE-DMX4LED4-DCV	4 Channels 4A Each		
DMX Bridge	Protocol Integration Only	Not Relative to our Controller	DMX Bridge	SB-DMX48-DN	48 Channels		

Any Type of Light That Need only On/Off Control

What to Select	Limits Instructions Recommendations	Max Wattage per Circuit Channel Fold 220V	Recommended Product	Model	How Many It Can Control	Products 	Barcode
Relay Module	Small Loads	500W	Trail Click Relay	SB-1R-TC	1 Channels - Each 5A		
Relay Module	Small Loads	500W	Trail Click Relay	SB-2R-TC	2 Channels - Each 5A		
Relay Module	Small Loads	500W	Trail Click Relay	SB-3R-TC	3 Channels - Each 5A		
Relay Module	Small Loads	500W	Mini Relay	SB-2R-FL	2 Channels - Each 5A		

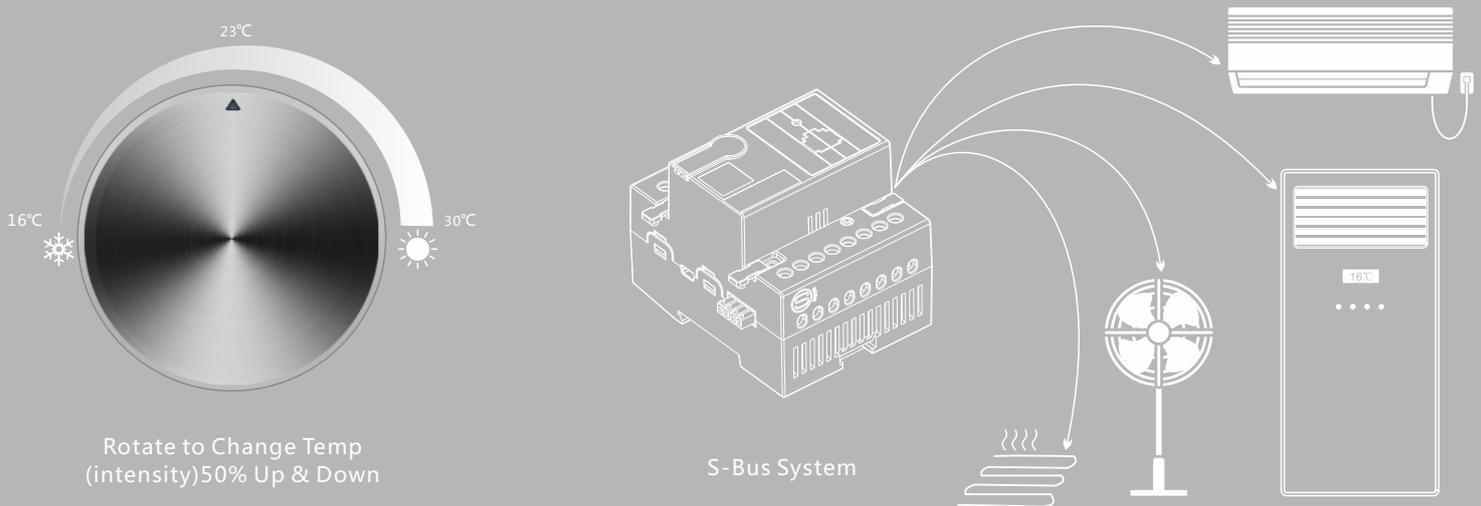


Any Type of Light That Need only On/Off Control

What to Select	Limits Instructions Recommendations	Max Wattage per Circuit Channel Fold 220V	Recommended Product	Model	How Many It Can Control	Products 	Barcode
Relay Module	Very High Loads	5000W	DIN Module	Rlay 4c20A	4 Channels - Each 20A		
Relay Module	High Loads	3500W	Mini Relay Module	Rlay 6c16A	6 Channels - Each 16A		
Relay Module	High Loads	3500W	Mini Relay Module	Rlay8c16A	8 Channels - Each 16A		
Relay Module	Normal Loads	2000W	Mini Relay Module	Rlay 12c10A	12 Channels - Each 10A		



Climate Control



How to Calculate Your Load?

Depending on your Country Voltage, and According to your Fixture Voltage and Wattage as well as the Number of Fixtures, you can Calculate the Load

Example:

if your Voltage is 220VAV, and you are Having One Bulb in Middle of Ceiling (that Bulb is 100Watts as Example) . Then your Load = $100W/220V=0.46$ Amp
 if your Voltage is 110VAC, and you are Having One Bulb in Middle of Ceiling (that Bulb is 100Watts as Example) . Then your Load = $100W/110V=0.91$ Amp
 if your Voltage is 24VDC, and you are Having 4 Ceiling Spots (that LED Bulb is 3Watts Each as Example) . Then your Load = $4 \times 3W/24V= 0.5$ Amp

How To Select a Automation Module to Control your Light Fixtures?

There are many Lighting Types in the market, Different Types require Different Control Modules , Accordingly here is some recommendation:

For Light Types that you like to Dim:

✓ Incandescent	✓ CFL	✓ Halogens	✓ Dimmable LED
----------------	-------	------------	----------------

Recommendation:
Add Flicker Suppressor
For LED Channels



Note:
Light Must Be Dimmable
By Manual Dimmer

Examples: Chandler, Down light, Wall Light, Table Light, Standing Light, Spike Lights ++

What to Select	Limits Instructions Recommendations	Max Wattage per Circuit Channel Fold 220V	Recommended Product	Model	How Many It Can Control	Products CE	Barcode
Relay Module	Very High Loads	5000 W	DIN Module	Relay 4c20A	4 Channels - Each 20A		
IR Emitter	Max 160 Character length per Code, 250 Codes Max	No Limit	IR Emitter	IR	Average 8 Different Brand AC's		
IPIR	Max 160 Character length per Code, 50 Codes Max per AC	Wall mounts and Standing	IR Emitter	5IPIR	5 Different AC's		
HVAC 2	Normal Thermostat Relay Driven Analog Controller (5-8 Wires)	500 Watts Per Relay Contact standard	HVAC 2	SB-HVAC2-DN	1 FCU		
HVAC 2	Normal Thermostat Relay Driven Analog Controller (5-8 Wires)	500 Watts Per Relay Contact standard	HVAC 2	SB-HVAC2-DN	1 AHU		
HVAC 2	Normal Thermostat Relay Driven Analog Controller (5-8 Wires)	500 Watts Per Relay Contact standard	HVAC 2	SB-HVAC2-DN	1 Valve/Damper		
HVAC 2	Normal Thermostat Relay Driven Analog Controller (5-8 Wires)		0 - 10V	0 - 10V	6 Valves/Dampers		



Climate Control



What to Select	Limits Instructions Recommendations	Max Wattage per Circuit Channel Fold 220V	Recommended Product	Model	How Many It Can Control	Products 	Barcode
HVAC 2	Normal Thermostat Relay Driven Analog Controller (5-8 Wires)	500 Watts Per Relay Contact standard	HVAC 2	SB-HVAC2-DN	1 Pump, 3 Fan Speed, 1 Drain		
Relay Module	Small Loads	500W	Mini Relay	SB-2R-FL	2 Channels - Each 5A		
Relay Module	High Loads	3500 W	Mini Relay Module	Rlay8c16A	8 Channels - Each 16A		