Catron AI

AC Powered Switch Interface for Push Button, Toggle, and Rotary Switches

lumos CONTROLS
A WISILICA BRAND

INSTALLATION AND QUICK START SHEET

⚠ WARNING AND GUIDELINES!!!
Read and follow all safety instructions!!

DO NOT INSTALL DAMAGED PRODUCT! This product has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.

WARNING : TURN THE POWER OFF AT THE CIRCUIT BREAKER BEFORE WIRING

WARNING: Risk of Product Damage

- Electrostatic Discharge (ESD): ESD can damage product(s). Personal grounding equipment should be worn during all installation or servicing of the unit
- Do not stretch or use cable sets that are too short or are of insufficient length
- Do not modify the product
- Do not mount near gas or electric heater
- Do not change or alter internal wiring or installation circuitry
- Do not use product for anything other than its intended use

WARNING - Risk of Electric Shock

- Verify that supply voltage is correct by comparing it with the product information
- Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements
- All wiring connections should be capped with UL approved recognized wire connectors
- All unused wiring must be capped

Do's	Dont's
Installation should be performed by a qualified electrician	Don't use outdoors
Installation shall be in accordance with all applicable local and NEC codes	Avoid input voltage exceeding maximum rating
Turn the power OFF at circuit breakers before wiring	Don't dissemble the products
Observe the correct polarity of output terminal	-

Specifications	Min	Type	Max	Unit	Remarks
Input Voltage	90	_	277	VAC	Rated Input voltage
Input Current	_	_	10	mA	@ 230V
Power Consumption	_	_	2	W	Active Power
Input Frequency	50	_	60	Hz	_
Frequency Range	2400	_	2483	MHz	_
Inrush Current	_	4	_	A	_
Surge Transient Protection	_	_	4	kV	@Line to Line: Bi-Wave
Stand By Consumption	_	_	9	mA	_
Switch Input Voltage	_	_	3.3	V	Applicable for toggle/ push-button switches
Dimmer Input Voltage	0	_	10	V	Applicable for slider/ rotary dimmer switches
Dimming Range	0	_	100	%	_
Tx Power	_	_	8	dBm	Conductive
Rx Sensitivity	_	-92	_	dBm	_
Ambient Temperature	−20	_	50	°C	_
Relative Humidity	20	_	85	%	_
Dimensions	_	43 x 35 x 20	_	mm	L x W x H
Dimensions	_	1.7 x 1.4 x 0.8	_	in	L x W x H

Product Overview

Catron AI is an AC powered wireless switch interface device. This interface device shall be connected with 4 toggle switches or push button switches and a rotary switch for the control of light devices, groups, or scenes and animations.   It is part of Lumos Controls ecosystem which includes controllers, sensors, switches, modules, drivers, gateways, and analytical dashboards.
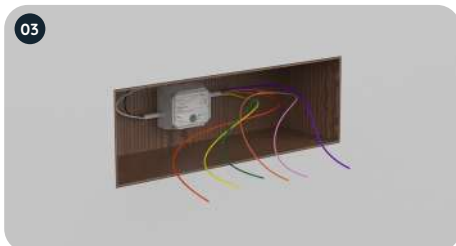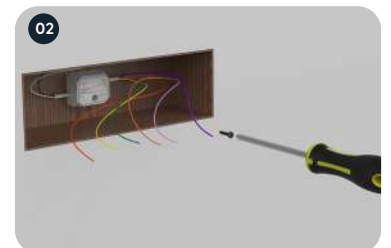
Required Tools & Supplies
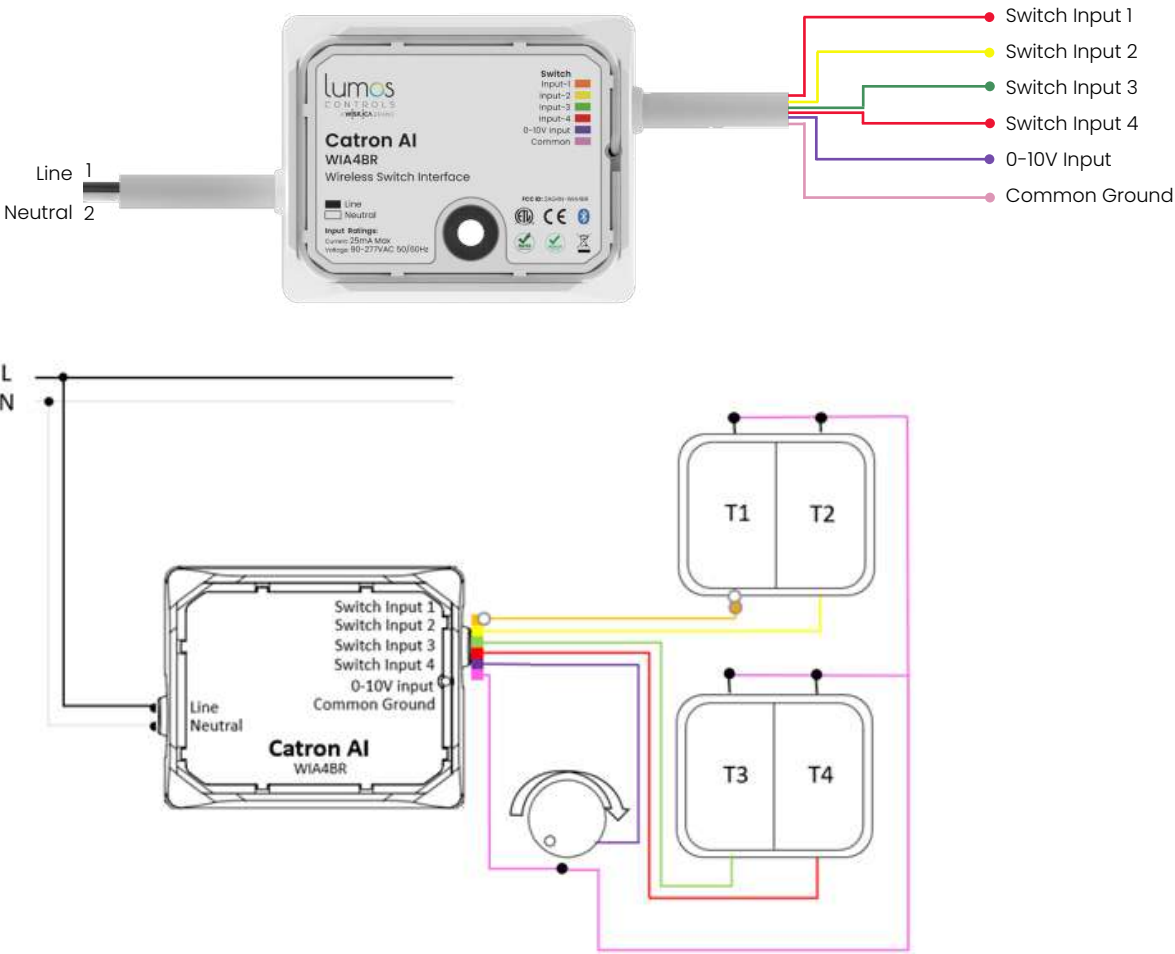
Screwdriver

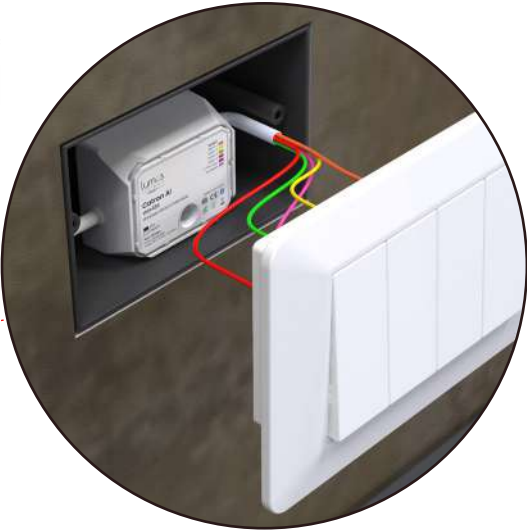## INSTALLATION INSTRUCTIONS

Wiring instructions

- Turn off the power before wiring
- Place the device on the flush box and tighten it using the screw *(Depth of the box to be decided based on the size of switch)
- To power the device, connect the AC Line and Neutral wires from the mains supply to the Line and Neutral of the device respectively
- Based on the number of toggle/push button switches to control, connect the input lines to the switches *Connect 0-10V input wires to the rotary switch to control the dimming. (optional)
- Cover the switch

Wiring Diagram

Line 1
Neutral 2

Switch Input 1
Switch Input 2
Switch Input 3
Switch Input 4
0-10V Input
Common Ground

L
N

Switch Input 1
Switch Input 2
Switch Input 3
Switch Input 4
0-10V input
Common Ground

Line
Neutral

Catron AI
WIA4BR

T1   T2

T3   T4

Application

Troubleshooting

When returning from a Power Outage, lights go back to ON state.	This is normal operation. Our device has a fail-safe feature forcing the device to go to 50% or 100% and 0-10V at the full output on the loss of power. Alternatively, the device will return to its previous state after the power is restored, as configured using the Lumos Controls mobile app.
Device doesn't operate immediately after power ON	Check whether you have set up a transition time
Lights flickering	• The connection is not appropriate • The wires are not secured firmly with connectors
Lights did not turn ON	• Circuit breaker tripped • Fuse has blown • Inappropriate wiring

Commissioning

Once powered up, the device will be ready to be commissioned via the Lumos Controls mobile app available for free download on iOS and Android. To begin commissioning, click the '+' icon from the top of the 'Devices' tab. The app allows you to preset certain configurations which will be loaded after the device is added. The pre-configurations made using 'Commissioning Settings' will be sent to the devices being commissioned. Once commissioned, the device will be displayed in the 'Devices' tab and you can perform individual operations like ON/OFF/dimming on it from this tab.

Please visit - Help center for more details

Warranty

5-year limited warranty
Please find warranty terms and conditions
Note: Specifications may change without notice
Actual performance can vary due to end-user environment and application