INSTALLATION MANUAL

TIS ADS BUS 3 RELAYS MODULE
SMALL RELAY MODULE

Model: ADS-3R-BUS

TIS CONTROL EVERYTHING

PRODUCT INFORMATION

The BUS ADS Relay is a small module with 3 relays that can be used to control lights, shutters, and FCU. It can be located anywhere to complete your installation and minimize the electrical wiring.

PRODUCT SPECIFICATIONS			
	Output	Number of relays Nominal voltage Nominal current per channel	3 0- 230 V AC 50/60 Hz 8 A / 230 VAC
	Output switching current	Max. Switching current Max. Continues current Max. Switching voltage	10A/230 VAC resistive 6A/230 VAC florescent 8A/230 VAC 277VAC / 30VDC
	Output service life	Mechanical endurance	> 10,000,000 OPS
	Output switching times	Operating time Releasing time Max. operating frequency	8 mS (at nomi. Volt) 5 mS (at nomi. Volt) 25 cycle/min
TISBUS	**TIS BUS**	Number of devices on 1 line Bus voltage Current consumption (Normal) Current consumption (Peak) Protection	Max. 64 12-32 V DC <10 mA / 24 V DC <30 mA / 24 V DC Reverse polarity protection
	Operation	Programming button/LED By TIS bus Programming	For assignment of the physical address TIS protocol messages and commands Manual basic programming or via software
	Dimensions	(Width × Length × Height)	50mm × 35mm × 50mm
	Housing	Materials Internal parts color IP rating	Fireproof PC White IP 50

BARCODE (UPC-A)

6 58921 79623 8

CE RoHS COMPLIANT FC

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TIS ADS BUS 3 RELAYS MODULE
Model: ADS-3R-BUS

Read Instructions
We recommend that you read this Instruction Manual before installation.

Data Cable
Use screened stranded RS485 data cable with four twisted pairs. Configure devices in a “Daisy Chain.”
Do not cut or terminate live data cables.

Safety instructions
Electrical equipment should only be installed and fitted by electrically skilled persons.
Failure to observe the instructions may cause damage to the device and other hazards.
These instructions are an integral part of the product and must remain with the end customer.

Electrical Wires
The recommended wire size for light channels is 2.5mm, for the Line, Neutral, and Load cables. The installer should consider the total current consumption when selecting the wires.

Simple Installation
it fits on most junction box sizes or can be located anywhere.

Warranty
There is a two-year warranty provided by law. The hologram warranty seal and product serial number are available on each device.

Mounting Location
Install in a dry, indoor area with a suitable temperature and humidity range.

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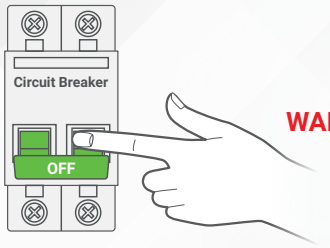
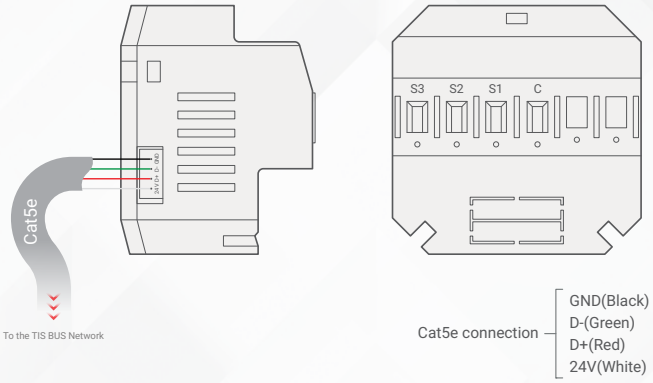
INSTALLATION STEPS

1 Turn off the main electrical source before installation.



WARNING! HIGH VOLTAGE

2 Connect a cat5e TIS network data cable to the TIS-BUS port as per the connection diagram.

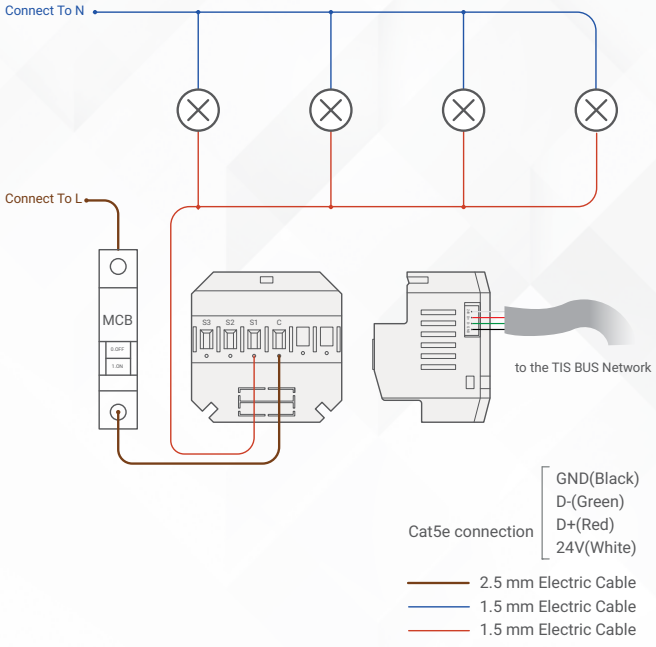


3 Complete the load connection, light, shutter, and FCU as per the following steps:

LIGHTS / APPLIANCES / FLOOR-HEATING CONNECTION

Connect the load electrical wires to outputs 1-3. Each channel can control a maximum of 5A loads. The installer should make sure not to overload the channels.

Load neutral wire should be linked to the neutral connection in DB enclosure.



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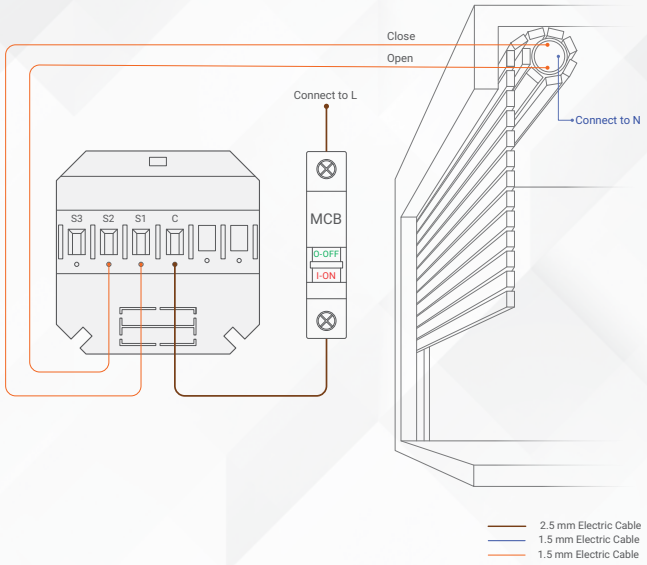
INSTALLATION STEPS

SHUTTER / CURTAIN CONNECTION

Once you combine the channels as shutter/curtain, then connect the shutter-open wire to the first channel and the shutter-close wire to the second channel. The shutter neutral wire should be linked to the neutral connection in DB enclosure.

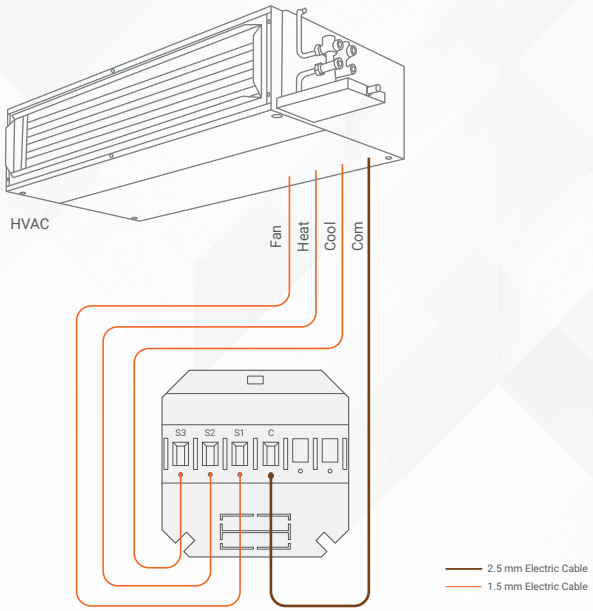
WARNING: Do not connect curtain motor wires before combining (interlocking) 2 relay channels together as curtain mode by software to avoid causing damage to motors.



FCU CONNECTION

Once you combine the channels as FCU, then connect the FCU (Low, Medium, High) wires to the first, second, and third channels, The FCU neutral wire should be linked to the neutral connection of the same section.

WARNING: Do not connect FCU wires before combining (interlocking) 3 relay channels together as FCU mode by software to avoid causing damage to FCU.



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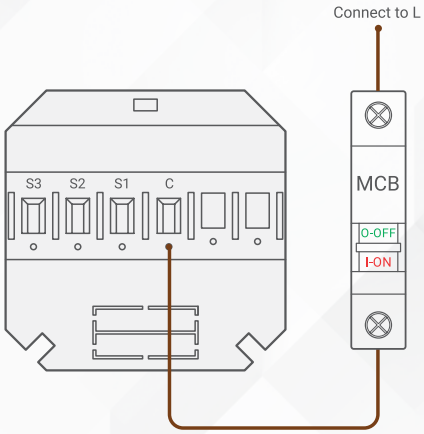
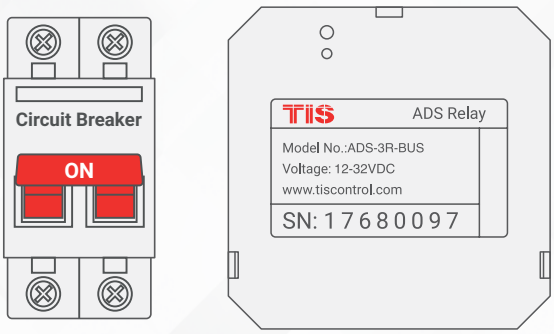
INSTALLATION STEPS

4 Connect the live (supply) wire to input "**C**". All inputs must have an appropriate voltage source and an MCB to protect that load circuit.



5 Turn on the breaker. The module should turn on accordingly.



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TROUBLESHOOTING

PRG button blinks fast Red color	**Reason:** The Module address conflicts with other device in TIS network, you need to press and hold the PRG button for 6 seconds so the module can get new address.
Device PRG LED is not Blinking; Device not Powered	**Reason:** Device is not powered on; no TIS-BUS 24V supply connected to the device.
Wall Panels can't Control the Device Channels	**Reason 1:** TIS-BUS connection has a problem; check the wires and make sure there's not a short in the connection. **Reason 2:** Programming address is wrong.
Channel is turning off by itself after few seconds	**Reason:** It is programmed as shutter/curtain combination, and running time is enabled in the software.

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