

INSTALLATION MANUAL

TIS ADS BUS 3 RELAYS MODULE SMALL RELAY MODULE









Model: ADS-3R-BUS



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



BARCODE (UPC-A)





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.




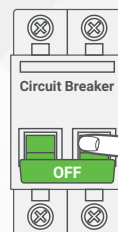
Mounting Location

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




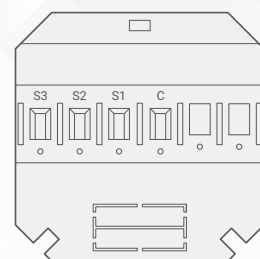
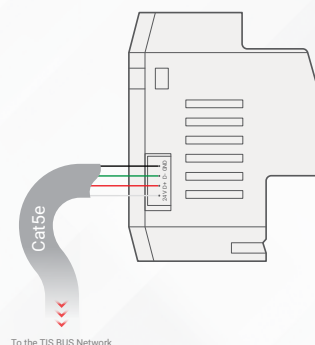
INSTALLATION STEPS

- 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.



Cat5e connection

- GND(Black)
- D-(Green)
- D+(Red)
- 24V(White)

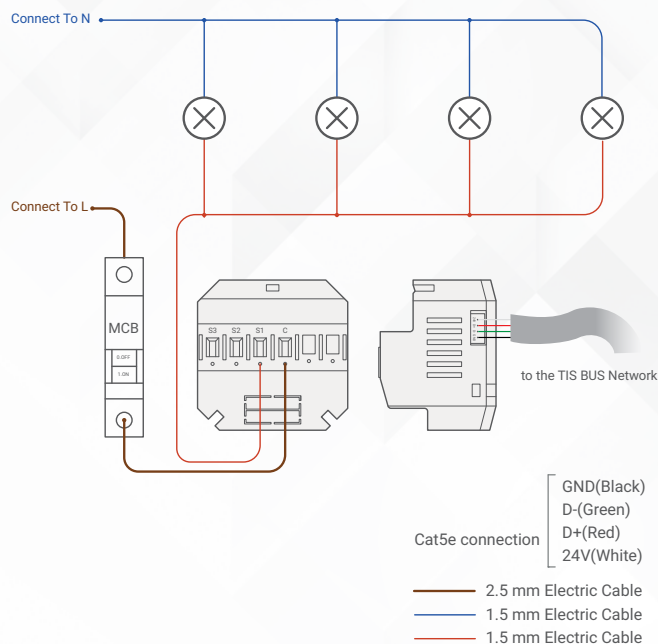
- 3  Complete the load connection, light, shutter, and FCU as per the following steps:



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.



INSTALLATION STEPS

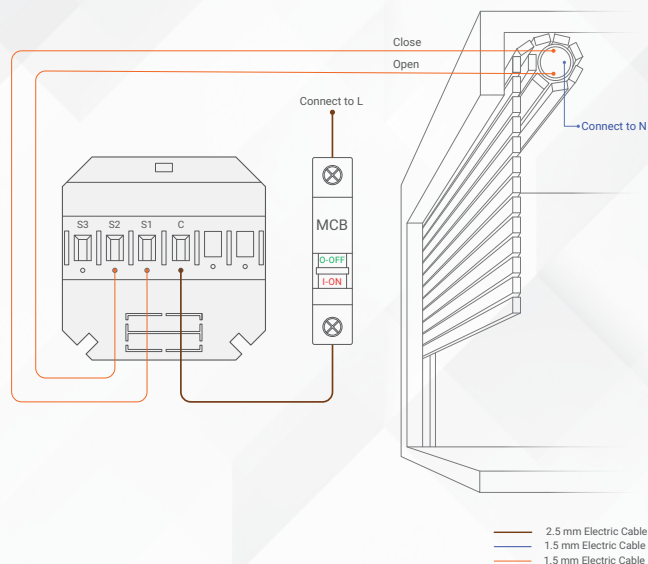


SHUTTER / CURTAIN CONNECTION

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.

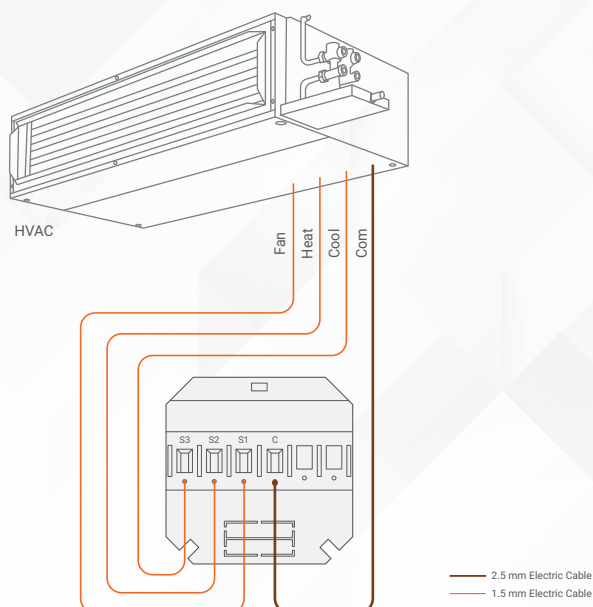


FCU CONNECTION

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.

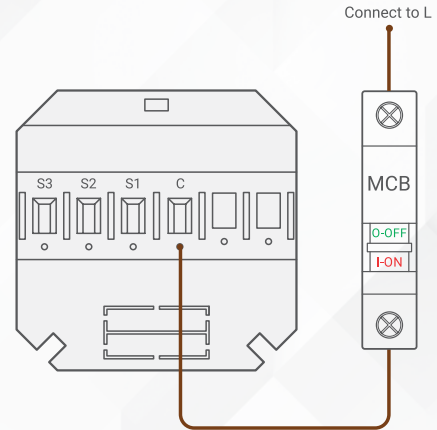


WARNING: Do not connect FCU wires before combining (interlocking) 3 relay channels together as FCU mode by software to avoid causing damage to FCU.

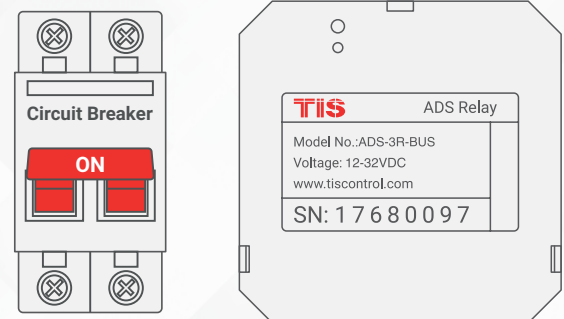


INSTALLATION STEPS

- 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.





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.