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TIS CONTROL ADS-3R-BUS Small Relay Module Instruction Manual

Contents

TIS CONTROL ADS-3R-BUS Small Relay Module

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
TISBUS	**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
╏╏╏	**Operation**	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	Fireproof PC
		Internal parts color	White
		IP rating	IP 50

Model: ADS-3R-BUS

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

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.

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

Mounting Location

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

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.

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.
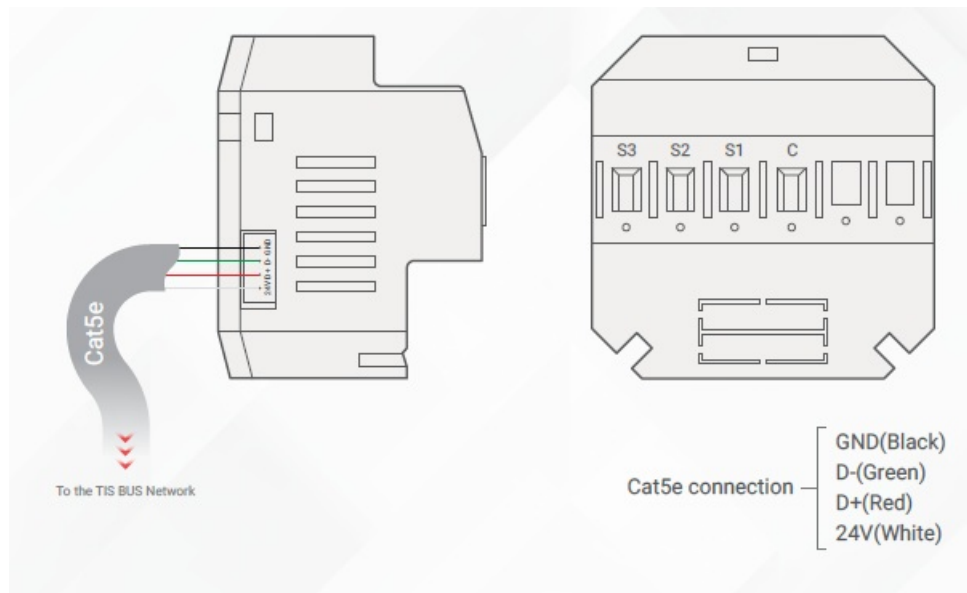
Warranty

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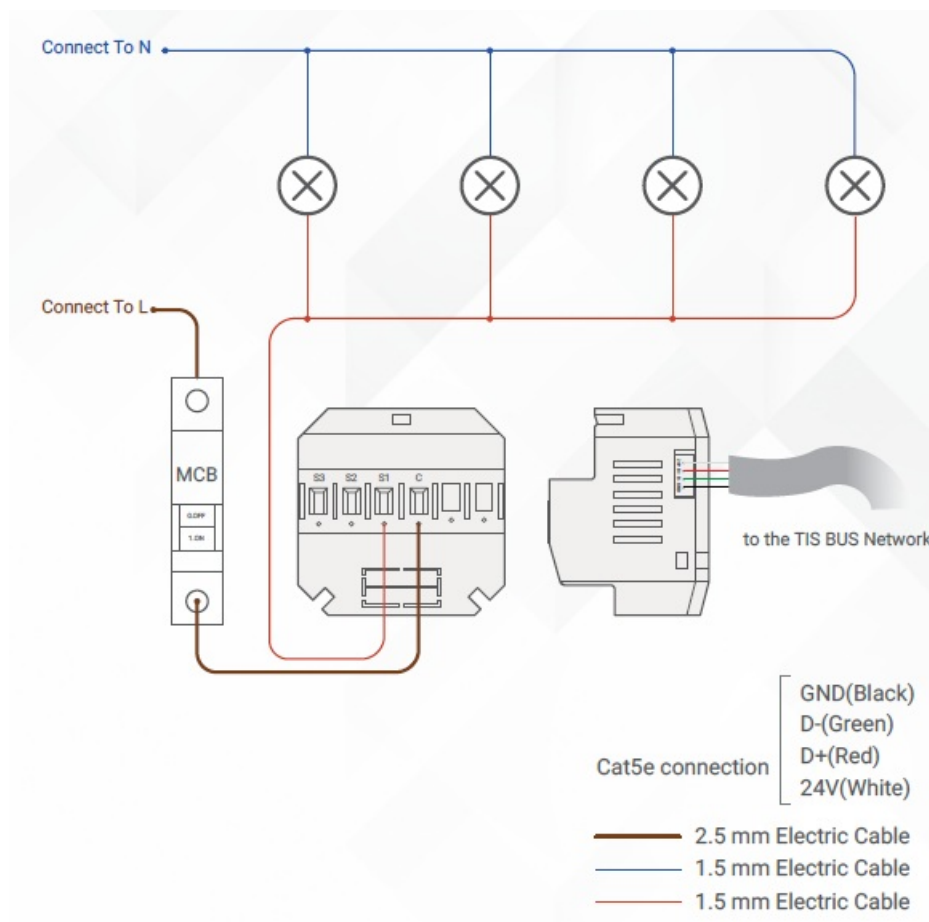
INSTALLATION STEPS

1. Turn off the main electrical source before installation.

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

Cat5e

To the TIS BUS Network

S3 S2 S1 C

Cat5e connection — GND(Black)
D-(Green)
D+(Red)
24V(White)

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

Connect To N

Connect To L

MCB

S3 S2 S1 C

to the TIS BUS Network

Cat5e connection — GND(Black)
D-(Green)
D+(Red)
24V(White)

—— 2.5 mm Electric Cable
—— 1.5 mm Electric Cable
—— 1.5 mm Electric Cable

LIGHTS / APPLIANCES / FLOORHEATING 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

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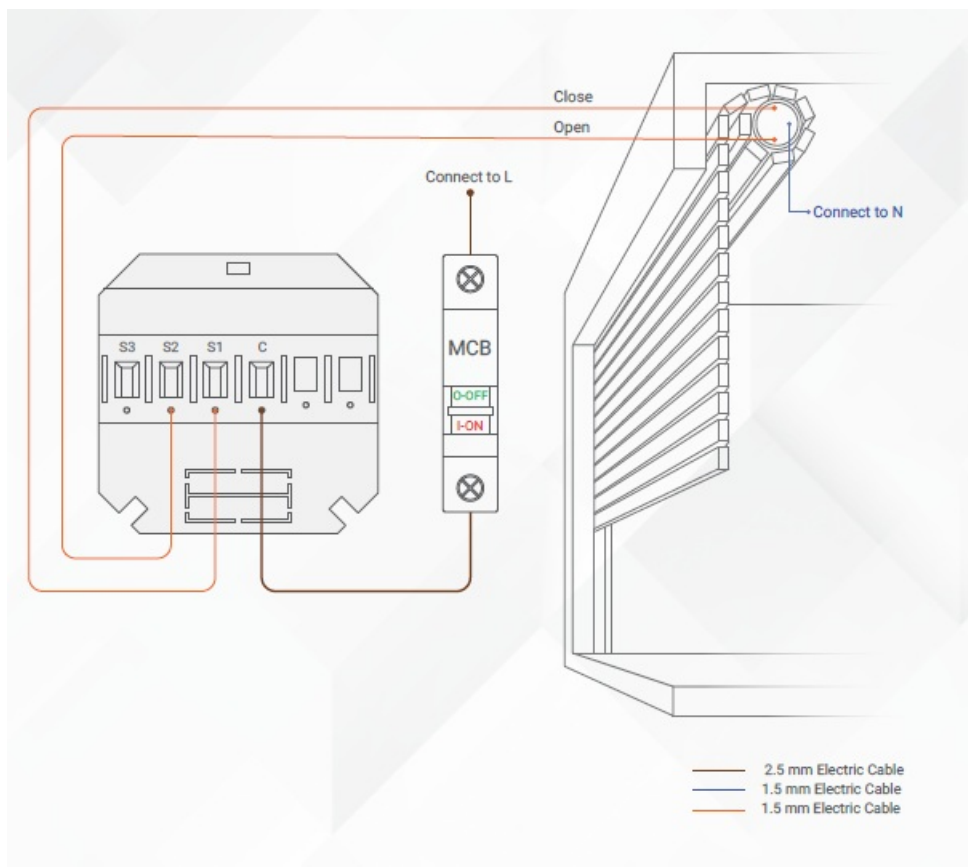
WARNING: Do not connect curtain motor wires before combining (interlocking) 2 relay channels together as curtain mode by software to avoid causing damage to motors

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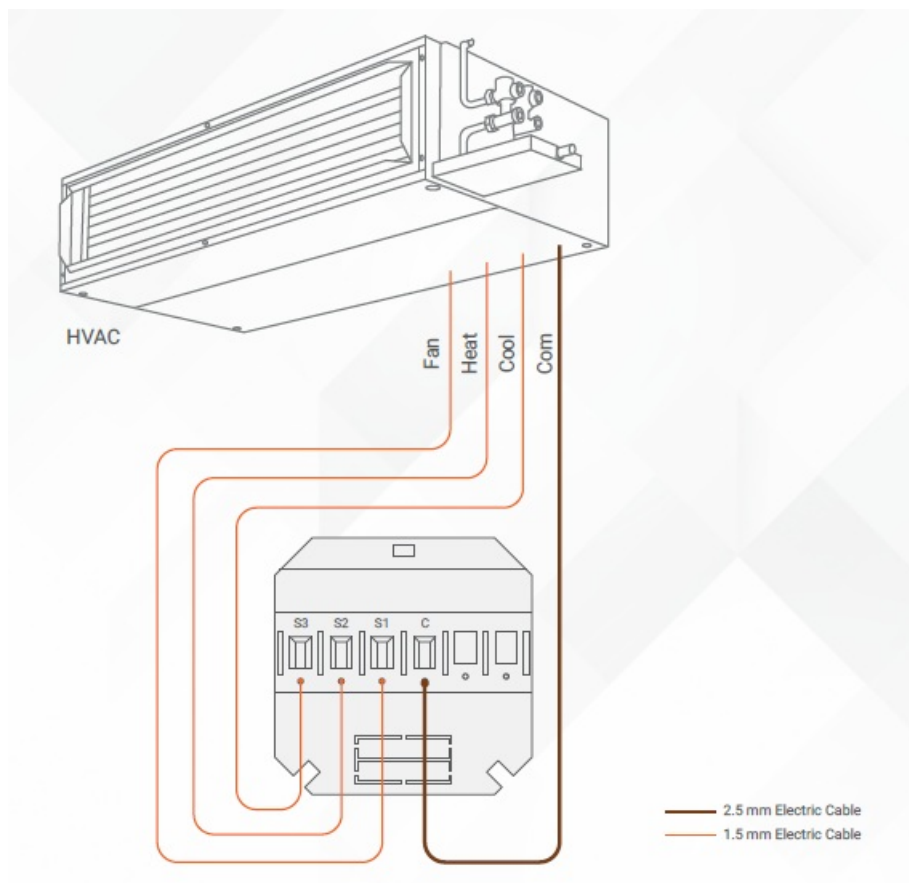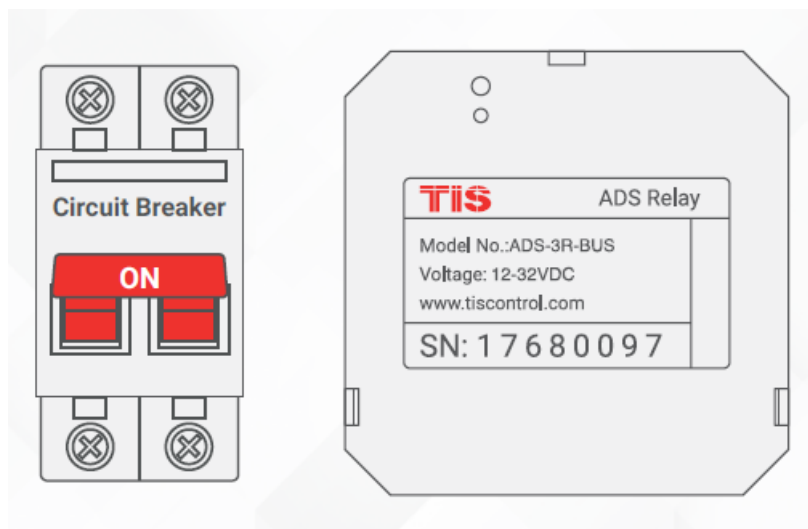
WARNING: Do not connect FCU wires before combining (interlocking) 3 relay channels together as FCU mode by software to avoid causing damage to FCU.

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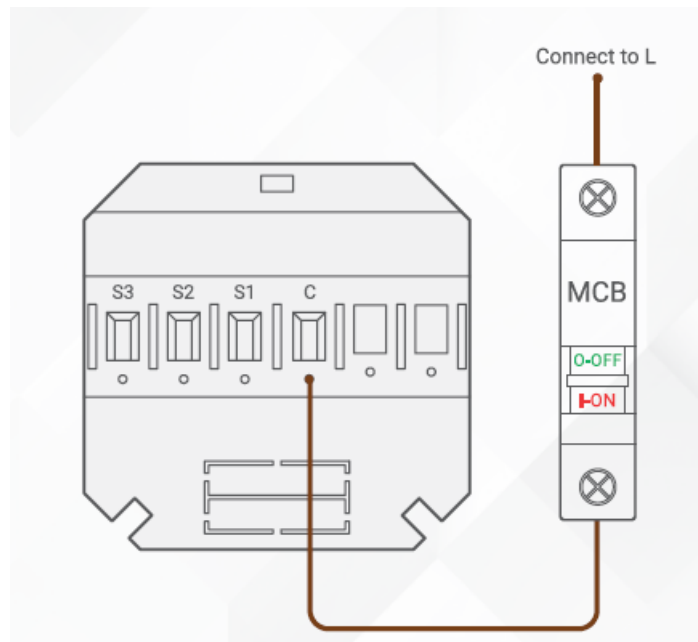
5. Turn on the breaker. The module should turn on accordingly

TROUBLESHOOTING

- **PRG button blinks fast Red color**
  - **Reason**: The Module address conflicts with another 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**: The device is not powered on; no TIS-BUS 24V supply is 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 shortage in the connection.
  - **Reason 2**: The programming address is wrong.
- **Channel is turning off by itself after few seconds**
  - **Reason**: It is programmed as a shutter/curtain combination, and running time is enabled in the software.
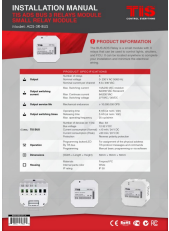
Documents / Resources

TIS CONTROL ADS-3R-BUS Small Relay Module [pdf] Instruction Manual
ADS-3R-BUS, Small Relay Module, Relay Module, Small Module, Module, ADS-3R-BUS Module

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