TIS LATCHING RELAY Relay Module with 8 Channels

Model: RLY-8CH-16A





PRODUCT INFORMATION

This product features a relay module for smart control over lights ON/OFF, sensors, and motorized components for maximum efficiency and user comfort.

PRODUCT SPECIFICATIONS				
±.	Output Switching Voltage	Number of channels Nominal voltage Max switching voltage	8 0 – 230 V AC 50/60 Hz 440VAC	
<u></u>	Output switching current	Nominal current per channel Maximum total channel load Max switching current Max continuous current	16 A 128 A 50A resistive, 20A florescent 20A VAC	
(TISBUS)	TIS Bus	Number of devices on 1 line Bus voltage Current consumption (Normal) Current consumption (operation) Protection	Max. 64 12-32 V DC <15 mA / 24 V DC <35 mA / 24 V DC Reverse polarity protection	
† ! †	Operation	Programming button/LED 1-8 buttons Mechanical Switch By TIS bus Programming	For assignment of the physical address Manual ON/OFF and programming Relay emergency operator TIS protocol messages and commands Manual & via software	
o°,	Functions	Lighting control ON/OFF Curtain control Scenes Sequences	8 separately controllable channels Can set 4 group of curtains open/close 8 different scenarios 8 different sequences	
+	Dimensions	Width \times Length \times Height	76mm × 144mm × 90mm	
	Housing	Materials Casing color Button color IP rating	Fireproof ABS Black Silver IP 20	
		. 3		













TIS LATCHING RELAY

MODEL: RLY-8CH-16A



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 installer should adequately consider the total current consumption when selecting the wires.

Recommended wire size for load (light channels) and input wires is 2.5 -4 mm.



Programming

This device can be tested and programmed manually. Advanced programming requires TIS Device Search software. Advanced software programming knowledge should be obtained in the advanced training courses.



Warranty

We provide a warranty as required by law. A hologram warranty seal and product serial number are provided on each device. Please send the description of the defect with Product S/N to our dealer network.



Simple Installation

DIN Rail mount facilitates installation. Fixing points are provided for installation without the use of DIN rail.



Mounting Location

Install in a dry, well-ventilated location. Controllers may emit some mechanical noise. Take this into account when deciding on a mounting location.





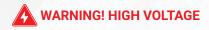
2



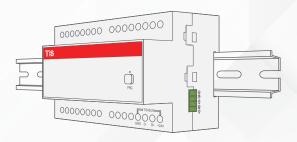
MODEL: RLY-8CH-16A

INSTALLATION STEPS

Turn off the main electrical source before installation.

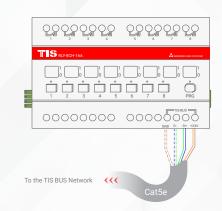


Mount the device on a DIN Rail inside an approved enclosure. The device can also be installed without the use of DIN Rail by two mounting screw holes.



3

Connect RS485 data cable to the TIS-BUS port as per the connection diagram. No need to loop the TIS-bus cable if 2 DIN Rail modules are connected together from the side bus train terminal.





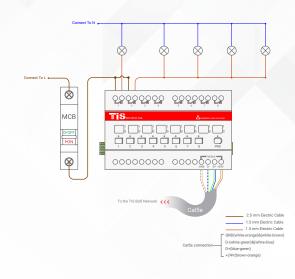
Complete the load connection, light, floor heating, and shutter as per the following steps:



LIGHTS / APPLIANCES / FLOOR-HEATING CONNECTION

Connect the load electrical wires to outputs 1-8. Each channel can control a maximum of 16A loads. The installer should make sure not to overload the channels.

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







MODEL: RLY-8CH-16A



INSTALLATION STEPS

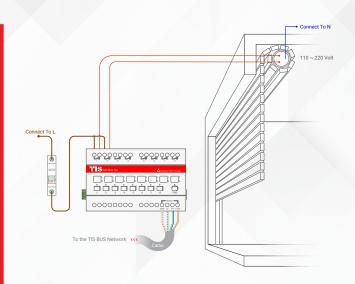


SHUTTER / CURTAIN CONNECTION

Once you combine any 2 channels as shutter/curtain, then connect the shutteropen 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.

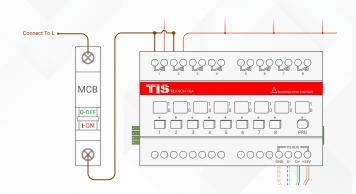


WARNING: Do not connect curtain motor wires before combining (interlocking) 2 relay channels together as curtain mode to avoid causing damage to motors. Please read about how to manually program shutter/curtain pairing in this manual.



5

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





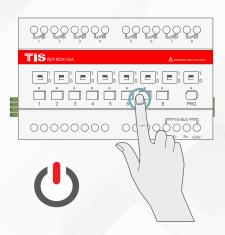
TIS LATCHING RELAY

MODEL: RLY-8CH-16A

INSTALLATION STEPS



Turn on the power source, and then test the loads by short pressing on the device's local override buttons 1-8.



(0)

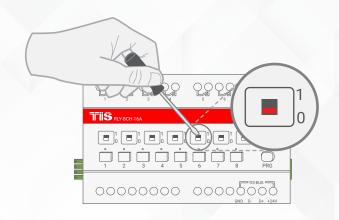
MECHANICAL EMERGENCY SWITCH

This Relay contain 8 mechanical switches to be used during power supplier failure. Simply use any screw driver to put the mechanical switch of each channel to up position for ON, and to down position for OFF.



WARNING!

Do not turn mechanical switch ON/OFF if it connects to curtain to avoid causing damage to motors.







MODEL: RLY-8CH-16A

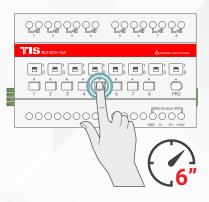
PAIRING (MANUAL PROGRAMMING)



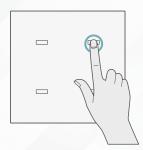
LIGHTS / APPLIANCES PROGRAMMING

All channels by default are used for lights/appliances control. You can pair device light channels to any wall panels by doing the following:

Long press on any buttons 1-8 for 6 seconds. The LED indicator for the pressed button will start blinking.



Short press on any wall lights buttons on 2**>**> the Luna, Mars, Terre or others panels.



Test the button on the panel by short pressing it for ON/OFF.







MODEL: RLY-8CH-16A



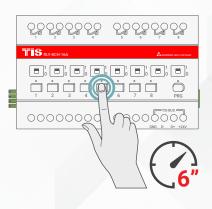
PAIRING (MANUAL PROGRAMMING)



FLOOR HEATING PROGRAMMING

1 >

Long press on any buttons 1-8 for 6 seconds. The LED indicator for the pressed button will start blinking.



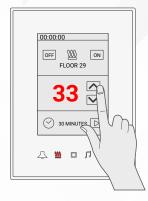
2

Go to floor heater page on any wall panel with the floor heating function, and press ON button to turn on the floor heating.



3>>

Test the floor heating by changing the temperature and turning it OFF/ON.







MODEL: RLY-8CH-16A



PAIRING (MANUAL PROGRAMMING)

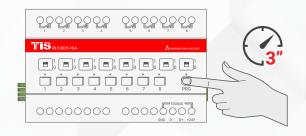


SHUTTER COMBINATION PROGRAMMING

You can change any 2 channels in sequence like CH1 & CH2, Ch3 & CH4, ... CH7 & CH8 to be combined (interlocked) together to work as shutter/curtain control.

To combine these 2 channels, complete the following steps manually:

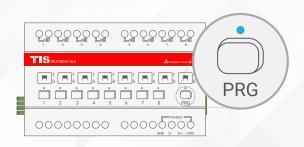
Press the PRG button for 3 seconds until the LED starts blinking rapidly.



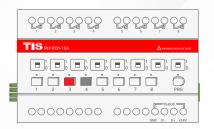
Short press on the first button and then **2** the second button that you want to combine as curtain control; for example, CH3 and CH4.



Wait for few seconds until the PRG LED stops blinking.



Test by turning the first button ON and **4** then the second button. Both buttons should not turn ON together. If you see that the first button is turning the other button off, that means that your buttons are successfully combined as shutter/ curtain mode.





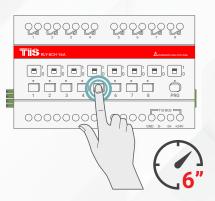


TIS LATCHING RELAY

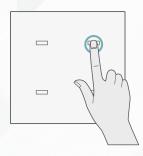
MODEL: RLY-8CH-16A

PAIRING (MANUAL PROGRAMMING)

To program the curtain to any wall panel, press and hold the CH (shutter-Open) button for 6 seconds. The LED indicator of the pressed button will start blinking,



Short press on any button on the Luna, Mars, Terre or others wall panels.

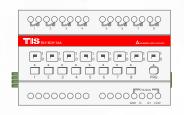


Test the button on the panel by short pressing for open/stop. Do the same to program the Close channel with another button.



To cancel the curtain interlock and return to lighting mode, repeat steps 1-3 above.







9



TIS LATCHING RELAY

MODEL: RLY-8CH-16A

TROUBLESHOOTING

	PRG Button Blinks Red Color Rapidly	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.
		Reason 1: Lights' neutral wire not connected
	Device Button LED ON but lights not ON	Reason 2: Channel protection delay time is enabled in software.
?	Wall Panels can't Pair with the Device	Reason 1: TIS-BUS connection has a problem; check the wires and make sure there's not a short in the connection.
		Reason 2: Manual programming function disabled in the device (default is enabled).
②	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.
		Reason: It is programmed as shutter / curtain
	Channel is turning off by itself after few seconds	combination, and running time is enabled in the software.

