

INSTALLATION MANUAL

BALLAST CONTROLLER MODULE

6 Channels 0-10V

Model: RLY-6CH-0-10V



PRODUCT INFORMATION

This module features six 0-10V output channels and is capable of controlling all types of 0-10V dimming ballast drivers.

PRODUCT SPECIFICATIONS

↑	Output switching voltage	Number of channels	6
		Nominal voltage	0 – 230 V AC 50/60 Hz
		Max. switching Voltage	440VAC / 125VDC
		Analog Output	6 outputs 0-10V
↑	Output switching current	Nominal current per channel	10A
		Maximum total channels load	60A
		Max switching current	16A Resistive 8A Florescent
		Max Continues current	10A VAC
TISBUS	TIS Bus	Number of devices on 1 line	Max. 64
		Bus voltage	12-32 V DC
		Current consumption (Normal)	<30 mA / 24 V DC
		Current consumption (Peak)	<40 mA / 24 V DC
		Protection	Reverse Polarity Protection
⏏	Operating and display elements	Programming button/LED (PRG)	For assignment of the physical address
		1-6 buttons	Manually ON/OFF and Programming
⚙️	Functions	Lighting control ON/OFF Dimming	6 channels controlled separately
		Curtain control	Can set 3 group of curtains (open/close) option
		Dimming	used with 0-10V output for dimming
		Scenes	6 different scenarios
+	Dimensions	Width x Length x Height	145mm x 75mm x 91mm
📦	Housing	Materials	ABS fire proof
		Casing color	Black Gray
		Button color	Silver
		IP rating	IP 20



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 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 noises. Consider this when deciding on a mounting location.



INSTALLATION STEPS

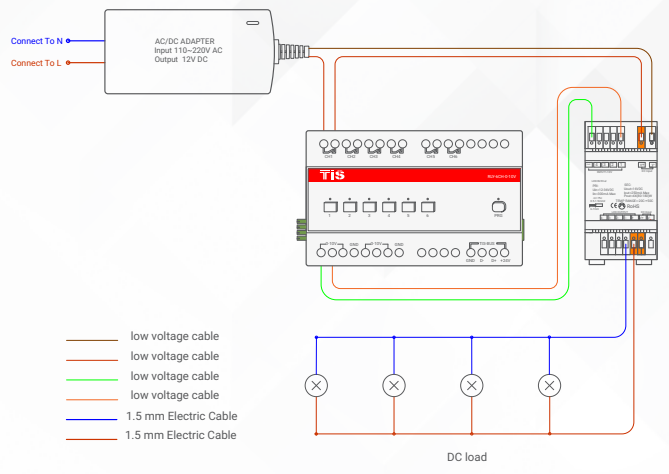
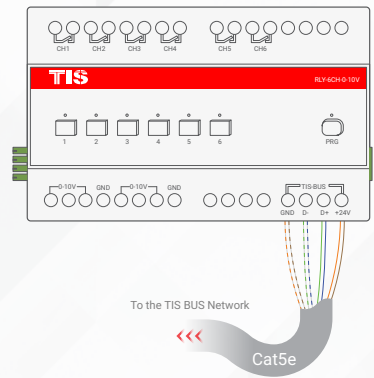
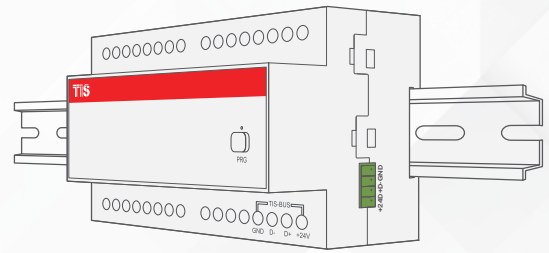
1 Turn off the main electrical source before installation.

2 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.

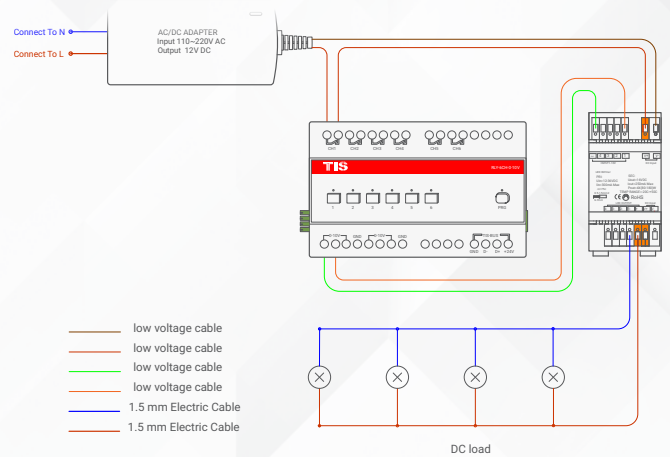
4 Connect the load (Driver Power) electrical wires to outputs 1-6. Each channel can control up to 10A loads. The installer should make sure not to overload the device and module channels.

WARNING! HIGH VOLTAGE

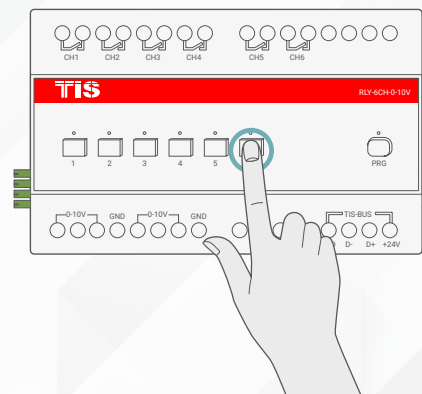


INSTALLATION STEPS

5 Connect 0-10V outputs for each channel to 0-10V drivers' inputs.



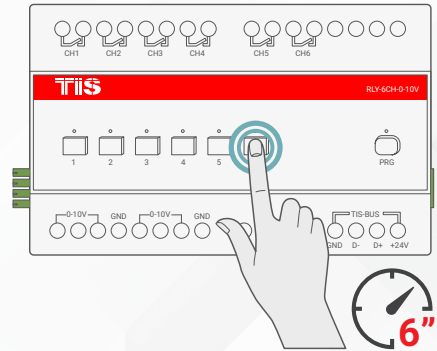
6 Turn on the power source, and then test the loads by short pressing on the device's local override buttons 1-8.



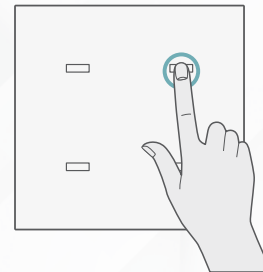
PAIRING (MANUAL PROGRAMMING)

You can pair the light channels with any wall panels. To do so, follow these steps:

- 1 Press on any buttons 1-6 for 6 seconds so that the LED indicator of that button starts blinking.



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



- 3 Test the button on the panel by short pressing for ON/OFF and Long Press to dim.





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.



Device Button LED ON but lights not ON

Reason 1: Lights' neutral wire not connected

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).



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.