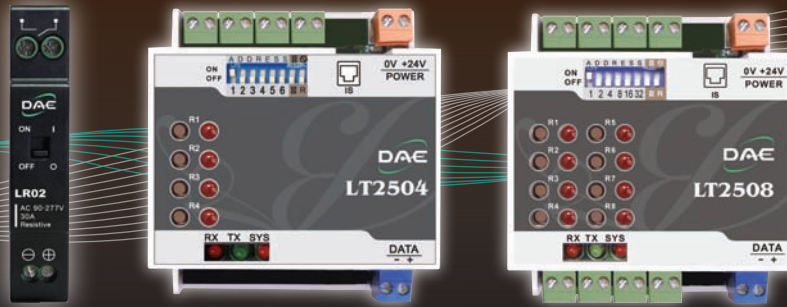


# LT2504 / LT2508

## External Relay Controller



### LT SERIES



Smart for Greenlife!

### Features

- On/Off control of large loads or gas discharge lamps
- Can drive an external latching relay (LR02)
- On board manual control buttons for backup control
- Set the address using DIP switches
- LEDs to indicate the status of each connected relay
- LEDs to indicate the communication and system statuses
- Auto-learning capability
- Choice of whether to have the relays all off or restored to its pre-interruption state on power up.

### Description

The LT2504/LT2508 is an addressable relay controller for external relays, with both digital control and communications capability. This device can be directly mounted onto a D-Bus network using just a two wire signal cable. It allows an IS45 digital switch to be directly connected to its RJ11 jack.

#### ● Auto Learning Capability

The LT2504/LT2508 can easily be configured through its auto-learning capability, there is no need for special complicated devices or programming software. All that is needed is a screwdriver and the IS45 digital switch to configure it for single, group, pattern modes of operation.

#### ● Manual Control

With its on board manual control buttons, each relay can be instantly controlled locally without having to resort to the central control in case there is a need to do so such as during installation or testing. This also serves as a form of emergency backup control in case the central control or network fails.

### Applications

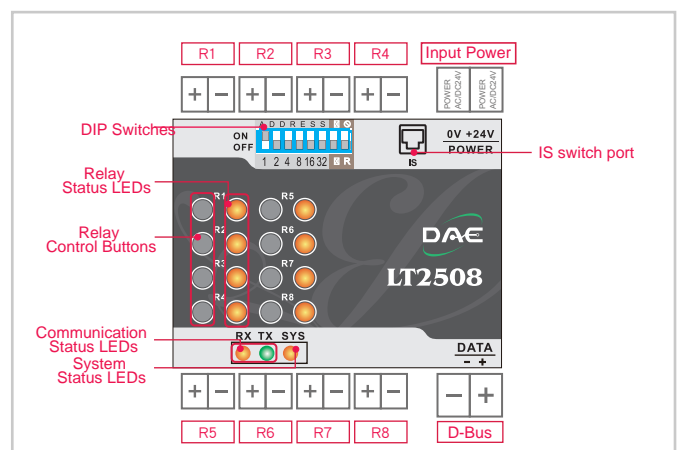
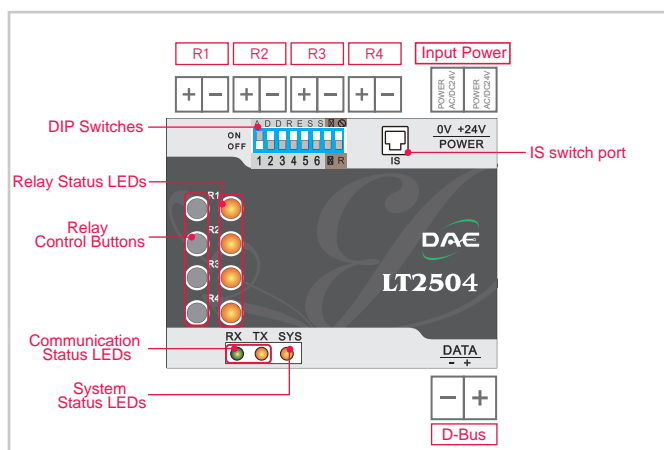
- Controlling large capacity gas discharge metal halide lamps
- Street lights
- Lighting for large commercial centers and exhibition halls
- Flood lighting for stadiums and gymnasiums

### Easy Configuration Using The IS Switch

The unit can be set for single, group, pattern or all off/on mode of operation using only a screwdriver and an IS45 switch as the setting tools.



### Front Panel and Terminals





## Specifications

### LT2504 / LT2508

Item	Description
Input Power	AC/DC 24V
Output Ports	LT2504 - 4 output channels LT2508 - 8 output channels
Power Consumption	Standby: 0.2VA, Full load: 1VA
Operating Environment	Temperature: 0 to 60°C Humidity: 0 to 90%RH (non-condensing)
Enclosure Material	ABS plastic
Mounting	DIN rail
IS switch port	RJ11 jack
Device Address	Set using DIP switches
Network Bus	D-Bus
Manual Control	LT2504 - 4 pairs of buttons and LED indicators, one for each relay LT2508 - 8 pairs of buttons and LED indicators, one for each relay
Terminal Wire Gauges	Power: Orange terminals 16~22AWG Communication: Blue terminals 16~22AWG Output: Green terminals 16~22AWG
LED indicators	Communication: Rx/Tx System Status: Sys
Weight	LT2504 - 200 grams LT2508 - 220 grams
Device Setting	Set via DIP switches

### LR02

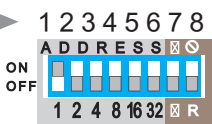
Model	LR02	LR02-30A
Capacity <sup>1</sup>	20A latching relay	30A latching relay
Voltage Rating	100~240VAC	90~277VAC
Safety		
Output Terminal	Wire Gauge: 10~14 AWG	
Input Terminal	Wire Gauge: 12~22 AWG	
Backup Control	Manual actuation lever	
Enclosure	ABS plastic	
Mounting	DIN rail	

### ● LR02 Load Capacity

Load Voltage	Load Type <sup>2</sup>	Wattage	
		LR02	LR02-30A
110Vac	A	800W	1000W
	B	1000W	1250W
	C	1750W	2200W
220Vac	A	1600W	2000W
	B	2000W	2500W
	C	3500W	4400W
277Vac	A	--	2200W
	B	--	2750W
	C	--	4800W

<sup>2</sup> Note:  
Type A - T5, LED, CFL  
Type B - T8  
(regular fluorescents)  
Type C - Tungsten lamps,  
halogen lamps

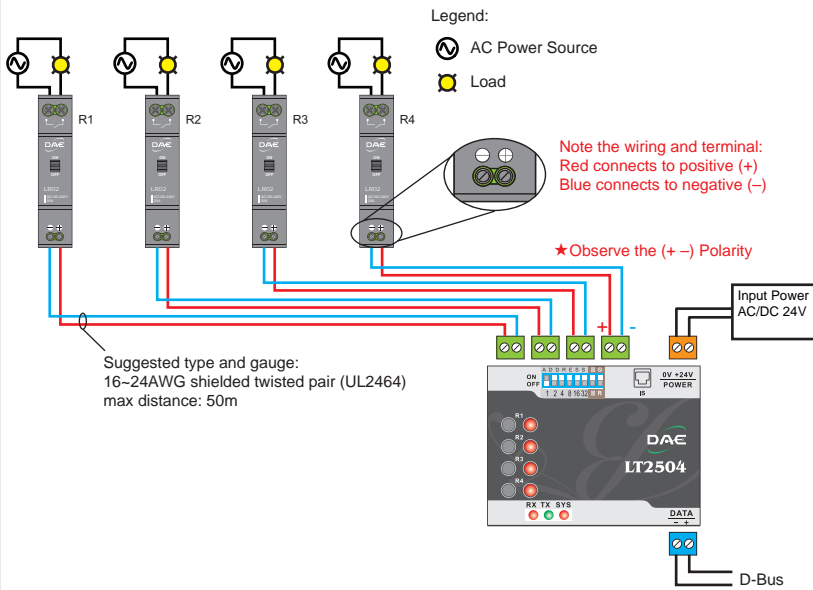
## DIP Switch



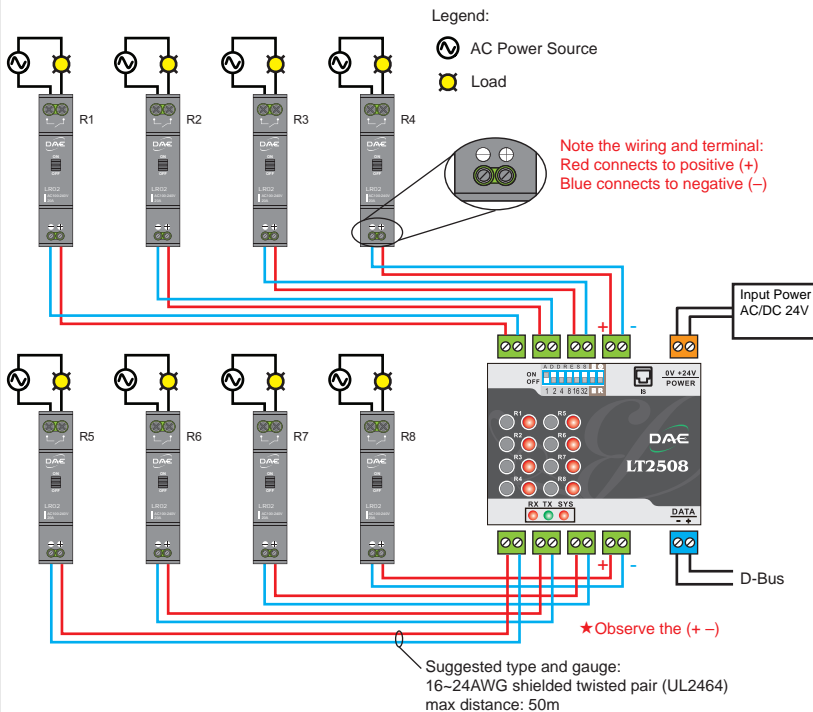
Switch	Usage
1-6	Device address 1 to 64 (all off = 64)
7	Not used
8	ON (0) All relays are always OFF on power up
	OFF (R) All relays are restored to its state prior to power interruption on power up

## Wiring Diagram

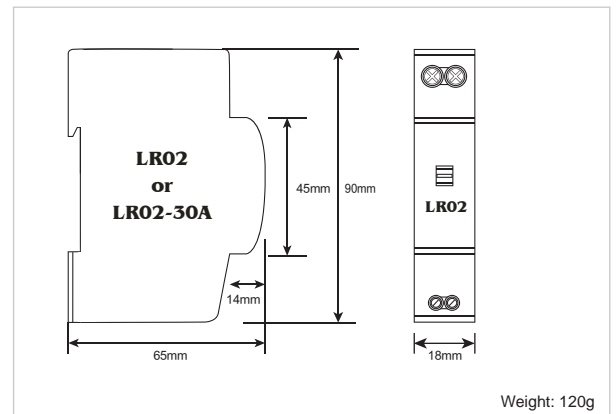
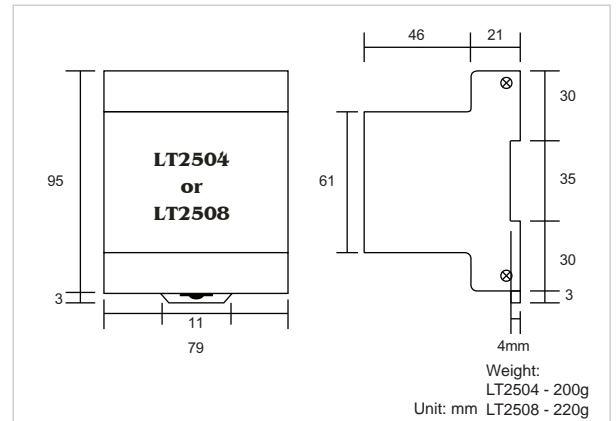
### LT2504



### LT2508



## Dimensions



## Ordering

Order Code	Description
LT2504	4 channel external relay controller
LT2508	8 channel external relay controller
LR02	20A Latching Relay with CE
LR02-30A	30A Latching Relay with UL