

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
- Input ports for connecting with classic switches or sensors

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

Description

Lighting Control

The LT2544 is an addressable control unit for controlling the external LR02 relay. It combines digital control with communications. This device can be directed connected to the D-Bus network using just a two wire signal cable. It also allows an IS45 digital switch to be directly connected to it via its RJ11 jack.

Authorization Mode

This mode of control refers to allowing or disallowing local switches or sensors to take control of the lights. When authorized, local control is allowed. When not authorized, local control is disallowed.

Application

This product with its authorization mode feature is well suited for public areas where switches or sensors are allowed to operate during off peak hours, but control should revert to the facility operator during peak hours so that the lights can either be forced on or off as needed.

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.



DIP Switch

Switch	Description
1-6	Device address 1 to 64 (all off = 64)
7	<input checked="" type="checkbox"/> reserved
8	On (⊙) = All relays are always OFF on power up Off (R) = All relays are restored to its state prior to a power interruption on power up

Front Panel and Terminals

Specifications

LT2544

Item	Description
Input Power	AC/DC 24V
Input/Output Ports	4 DO ports for controlling the LR02 relay 4 DI ports for classic switches for controlling its corresponding DO
Power Consumption	1.1VA
Operating Environment	Temperature: 0 to 60°C Humidity: 0 to 95% (non-condensing)
Enclosure Material	ABS plastic
Mounting	DIN rail
IS Switch Port	RJ11 jack
Device Address	1 to 64, set using DIP switches
Network Bus	D-Bus
Manual Control	4 pairs of buttons and LED indicators, one for each relay
Terminal Wire Gauges	Power: Orange terminals 2 pins, 12~22 AWG Communication: Blue terminals 2 pins, 12~22AWG Output: Green terminals 2 pins, 12~22AWG (4 sets) Input: Orange terminals 5 pins, 18~24AWG
LED Indicators	Communication: RX/TX System Status: SYS
Auto-Learning / User Setting Capability	Can be manually set in conjunction with an IS switch. Press any button for 5 seconds to enter setting mode.

LR02

Model	LR02	LR02-30A
Capacity ¹	20A latching relay	30A latching relay
Voltage Rating	100~240VAC	90~277VAC
Safety	CE	UL LISTED
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	

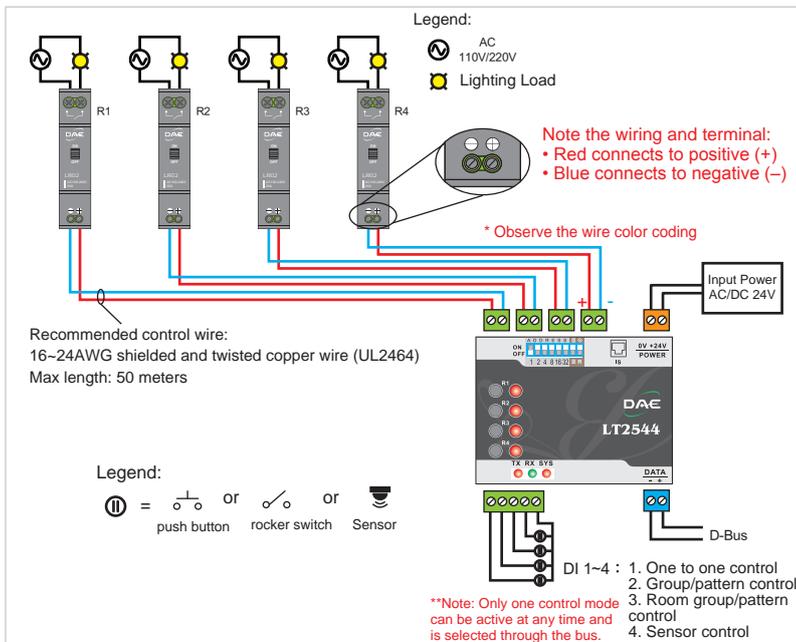
¹ Refer to LR02 Load Capacity table

● LR02 Load Capacity

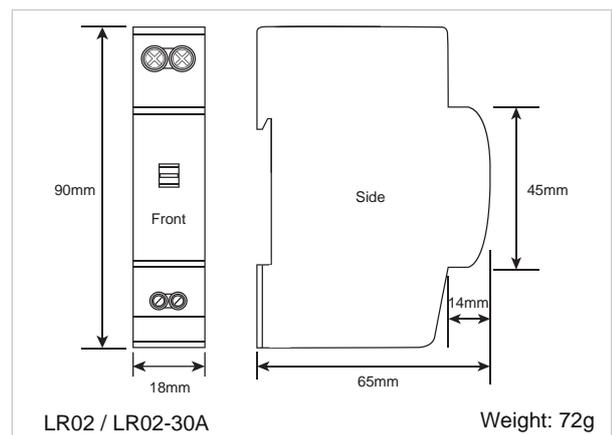
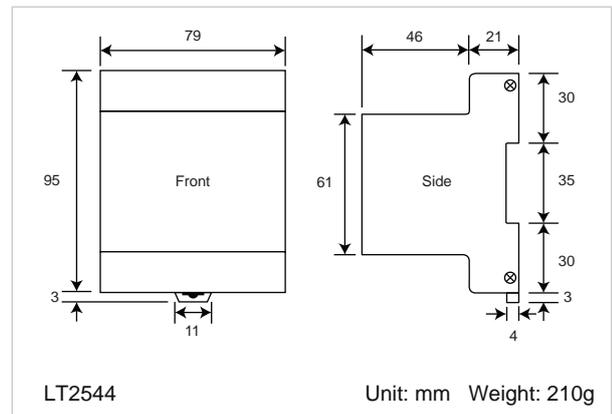
Load Voltage	Load Type ²	Wattage	
		LR02	LR02-30A
110Vac	A	800W	1000W
	B	1000W	1250W
	C	1750W	2200W
220Vac	A	1600W	2000W
	B	2000W	2500W
	C	3500W	4400W
277Vac	A	--	2200W
	B	--	2750W
	C	--	4800W

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

Wiring Diagram



Dimensions



Order Code

Order Code	Description
LT2544	4 channel lighting control unit
LR02	20A latching relay module with CE
LR02-30A	30A latching relay module with UL