

OVERVIEW

The Blue Box LTD adds cost-effective 0-10V dimming with the Field Configurable Relay for smart and simple switching and dimming. The Blue Box LTD is ideal for small-to-medium projects that require switching and dimming with a minimal footprint and the flexibility of configuring single pole relays into double or triple pole in the field.

The Blue Box LTD panel is available as factory pre-programmed for plug and play installation or may be programmed onsite and networked with up to 16 digital devices including remote relay panels, switches, and photocells. The Blue Box LTD has four inputs for local indoor daylight harvesting photosensors, four inputs for occupancy sensors (8-30VAC), and four inputs for dry contact switches. The Blue Box LTD works seamlessly with other LC&D GR 2400 panels and accessories.

FEATURES

- Distributed intelligence
- One 0-10V output per relay
- Non-volatile memory to store programming
- 10 year battery back-up for time of day
- Removable back plate for ease of installation
- UL 924 panel listing
- Available factory pre-programmed

Warranty

3-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

AcuityControls™

Blue Box™

Blue Box™ LTD



ORDERING INFORMATION

ENCLOSURE and INTERIOR must be ordered on separate lines, see Examples.

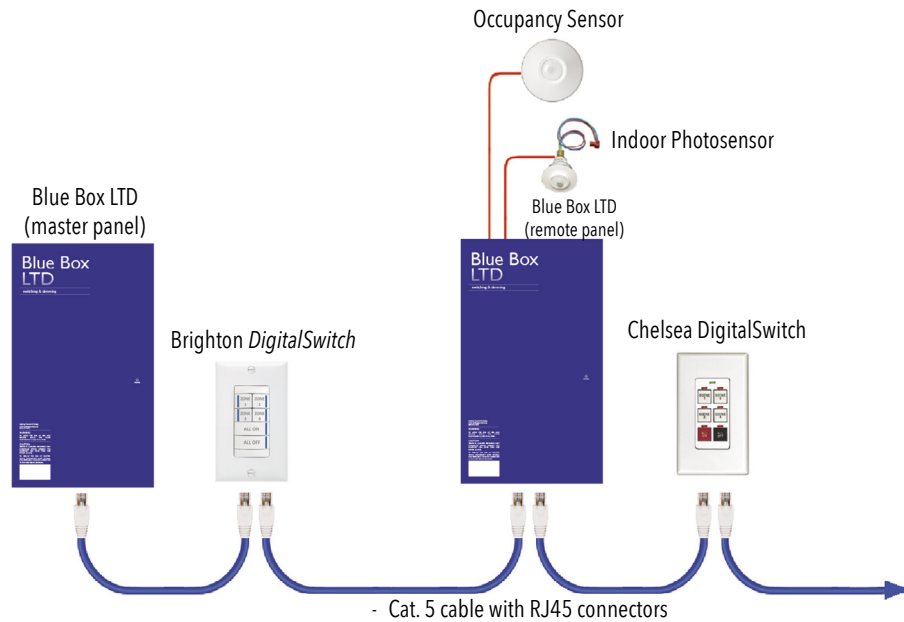
ENCLOSURE					Example: GR1404 LTD ENC SC SM NE1	
Relay Panel Enclosure		Door		Mounting, NEMA Rating		
GR1404 LTD ENC	4 relay enclosure	HL	Hinged locking	SM NE1	Surface Mount, NEMA 1	
GR1408 LTD ENC	8 relay enclosure	SC	Screw cover	FM NE1	Flush Mount, NEMA 1	
GR1416 LTD ENC	16 relay enclosure					

INTERIOR						Example: GR1404 LTD INT 4FCR IDIM DTC DV	
Relay Panel Interior	Control Card	Clock Option		Transformer	Input Card	Voltage Barrier¹	
GR1404 LTD INT 4FCR 4 relay interior	IDIM Dimming board	DTC	Digital time clock	DV Dual voltage 120/277V	[blank] none	[blank] none	
GR1408 LTD INT 8FCR 8 relay interior		REMOTE	Remote panel, no clock		D14 14 inputs	1VB 1 barrier	
GR1416 LTD INT 16FCR 16 relay interior						2VB 2 barriers	

Notes:

1. Acceptability of internal barrier for normal and emergency power separation is up to the discretion of the authority having area jurisdiction.

OVERVIEW



Title 24 System Component

SPECIFICATIONS

Enclosure Dimensions

GR1404 LTD (4 relays)

- SM HL NEMA 1 - 12.5" w x 10.3" h x 3.8" d
- SM SC NEMA 1 - 12.25" w x 10.3" h x 3.8" d
- FM HL NEMA 1 - 13.75" w x 11.75" h x 4" d
- FM SC NEMA 1 - 13.5" w x 11.5" h x 3.8" d

GR1408 LTD (8 relays)

- SM HL NEMA 1 - 12.5" w x 14.3" h x 3.8" d
- SM SC NEMA 1 - 12.25" w x 14.3" h x 3.8" d
- FM HL NEMA 1 - 13.75" w x 15.75" h x 4" d
- FM SC NEMA 1 - 13.5" w x 15.5" h x 3.8" d

GR1416 LTD (16 relays)

- SM HL NEMA 1 - 12.5" w x 22.3" h x 3.8" d
- SM SC NEMA 1 - 12.25" w x 22.3" h x 3.8" d
- FM HL NEMA 1 - 13.75" w x 23.75" h x 4" d
- FM SC NEMA 1 - 13.5" w x 23.5" h x 3.8" d

Standard Enclosure Type

Master: Surface mount, hinged locking door

Remote: Surface mount, screw cover

Relays

Field Configurable for Normally Closed (NC) and Normally Open (NO)

- 40A@120-480VAC Ballast
- 16A@120-277VAC Electronic
- 20A@120-277VAC Tungsten
- 20A@48VDC Resistive
- 2HP @ 120VAC
- 3HP @ 240-277VAC
- 65kA SCCR @ 480VAC

Addresses Used

- (2) LTD4, (4) LTD8, (8) LTD16

Inputs

- (4) photocell inputs, (4) pull high inputs (8-30VDC), (4) pull low inputs

Outputs

- Isolated full range 0-10V/35mA sink or source per channel
- 24VDC/300mA power for occupancy sensors per panel

Power Supply Inputs

- 120/277VAC

Programming

- Via the Digital Time Clock

Environment

- Ambient: 32-104° F (0-40° C)
- Relative Humidity: 90% non-condensing
- Designed for permanent interior and exterior installation

Standards

- UL and cUL 916 listed
- UL 924 listed (for emergency circuit use)

Bus Physical Layer

- RS485 (GR 2400 bus)

Bus Connector

- RJ45 connectors