



Blue Box™

Blue Box™ LTD



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 modem for factory program changes
- Available factory pre-programmed

ORDERING INFORMATION

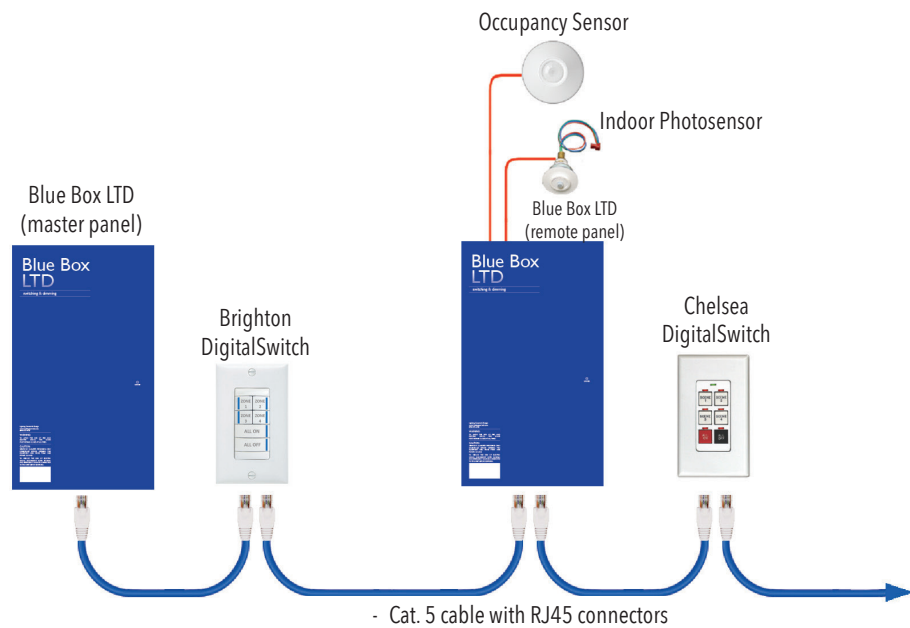
ENCLOSURE			Example: GR1404 LTD ENC HL SM NE1		
Relay Panel Enclosure	Door	Mounting, NEMA Rating ¹			
GR1404 LTD ENC 4 relay enclosure	HL Hinged locking	SM NE1	Surface Mount, NEMA 1		
GR1408 LTD ENC 8 relay enclosure	SC Screw cover	FM NE1	Flush Mount, NEMA 1		
GR1416 LTD ENC 16 relay enclosure		SM NE4	Surface Mount, NEMA 4		
		SM NE4X	Surface Mount NEMA 4X		
		SM NE12	Surface Mount NEMA 12		

INTERIOR						Example: GR1404 LTD INT 4FCR DTC DV D6					
Relay Panel Interior		Control Card		Clock Option		Transformer		Input Card		Voltage Barrier ²	
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			DTCMOD	Digital time clock with modem			D6	6 inputs	1VB	1 barrier
GR1416 LTD INT 16FCR	16 relay interior			REMOTE	Remote panel, no clock			D14	14 inputs	2VB	2 barriers

¹All non NEMA 1 enclosures shall have a NEMA 1 panel enclosed within the specified NEMA enclosure. These panels may only be ordered with a screw cover and surface mount door.

²Acceptability 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
- NEMA 4/4X/12 - 16" w x 16" h x 6.9" 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
- NEMA 4/4X/12 - 16" w x 20" h x 6.9" 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
- NEMA 4/12 - 20" w x 30" h x 8.9" d
- NEMA 4X - 24" w x 30" h x 8.9" 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/35mADC sink or source per channel
- 24VDC/300mA power for occupancy sensors per panel

Power Supply Inputs

- 120/277VAC

Programming

- Via DTC or with GX2 lighting control software

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

Warranty

Three-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.

Specifications subject to change without notice.