Project		Catalog #		Type	
Prepared by		Notes		Date	

Greengate

CK2 - Control Keeper 2

Network lighting control panel

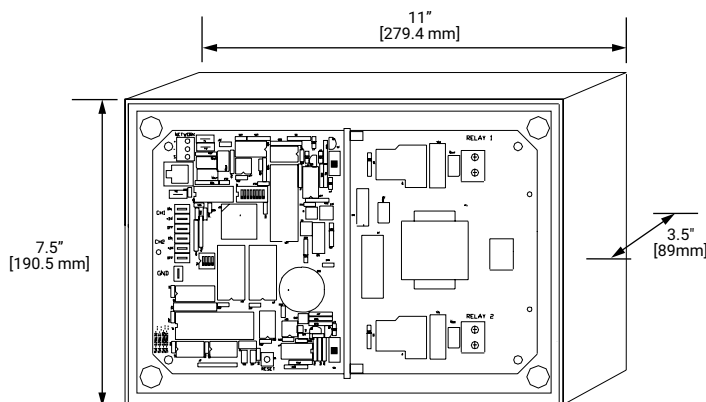## Product Certification

c(UL)us

Product Features

BAA

Top Product Features

- Capable of mixed load voltages (120/277 VAC) as well as mixed sources (i.e. normal and emergency power)
- Normally open relays
- Relays are built onto control board
- Options to meet Buy American Act requirements

Dimensional Details

11" [279.4 mm]
7.5" [190.5 mm]
3.5" [89mm]
RELAY 1
RELAY 2

additional product diagrams

COOPER
Lighting Solutions

Order Information

SAMPLE ORDER NUMBER: **CK2-120N0**

This is a network-ready lighting control system. It can be ordered with the ControlKeeper TouchScreen, ControlKeeper 4, ControlKeeper 4A or additional ControlKeeper 2 panels. It can also be ordered with any suitable system option or accessory.

Catalog Number

Domestic Preferences [1]	Product	Transformer Voltage	Type of Relay Card
[Blank] = Standard **BAA** = Buy American Act	**CK2** = ControlKeeper 2	**120** = 120 VAC **277** = 277 VAC	**NO** = Normally open
Notes			
(1) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.			

Product Specifications

Key Features
The ControlKeeper 2 network lighting control panel is a cost-effective specification grade lighting control system that can control 2 relays per panel. Network up to 254 ControlKeeper panels for a state of the art lighting control system.

Mechanical
Size: 7.5"H X 11"W X5"D (190.5 mm x 279.4 mm x 127 mm)
Environment:
- **Operating temperature:** 32°F to 122°F (0°C to 50°C)

Housing: NEMA 4x surface mount enclosure

Electrical
Transformer Ratings:
- 120 VAC or 277 VAC

Power Use Ratings:
- Fully loaded panel 20 watts

Master Override:
- ON/AUTO/OFF

Standard Relay Ratings:
- 20A, 120/277 VAC per relay
- 10A, 120/277 VAC electronic ballast (LED)
- Normally open
- Maximum wire size: 10 AWG
- Mechanical operations: 10 million

Software Specifications
Programming: Optional PC Software

System Includes:
- UL listed – UL 916 standard
- NEMA 4X enclosure
- 2 relays
- 2 low voltage input connections
- Digital Switch Interface
- Time schedules with astronomic clock
- Prioritization and masking of switch inputs, time schedules and remotes
- Timed inputs
- Occupant warn-off and overrides
- RS-232 port standard
- RS-485 network standard

Accessories:
- Keeper Enterprise Network Software
- Ethernet Interface Module
- Automation Interface Module
- CEPC (UL 924 Accessory)
- Greengate Digital Switch (GDS)
- Low Voltage Switches
- Contact Input Photosensor
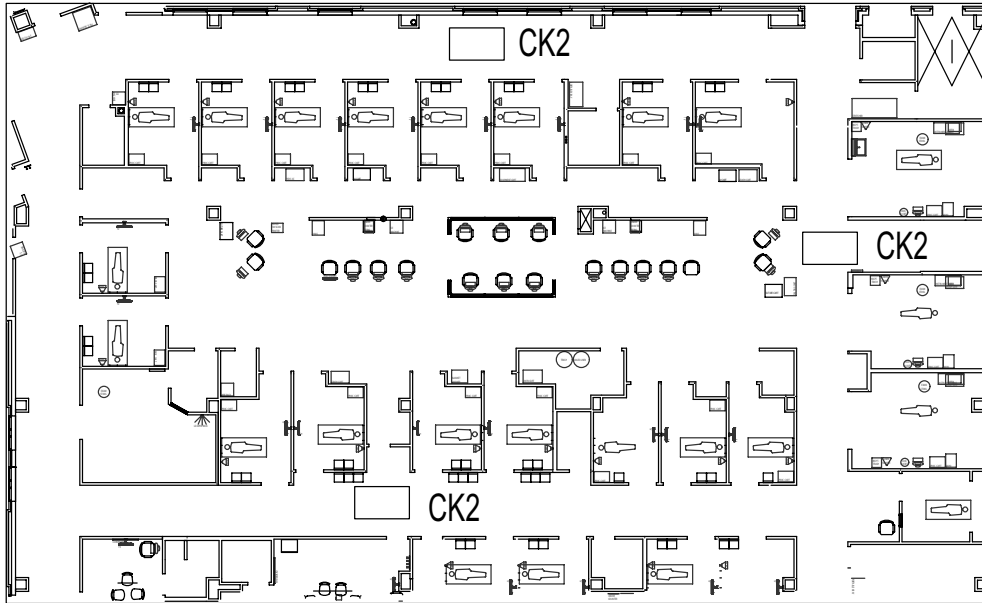- Occupancy Sensor

Standards/Ratings
- UL Approval
- UL 916 Listed

Warranty
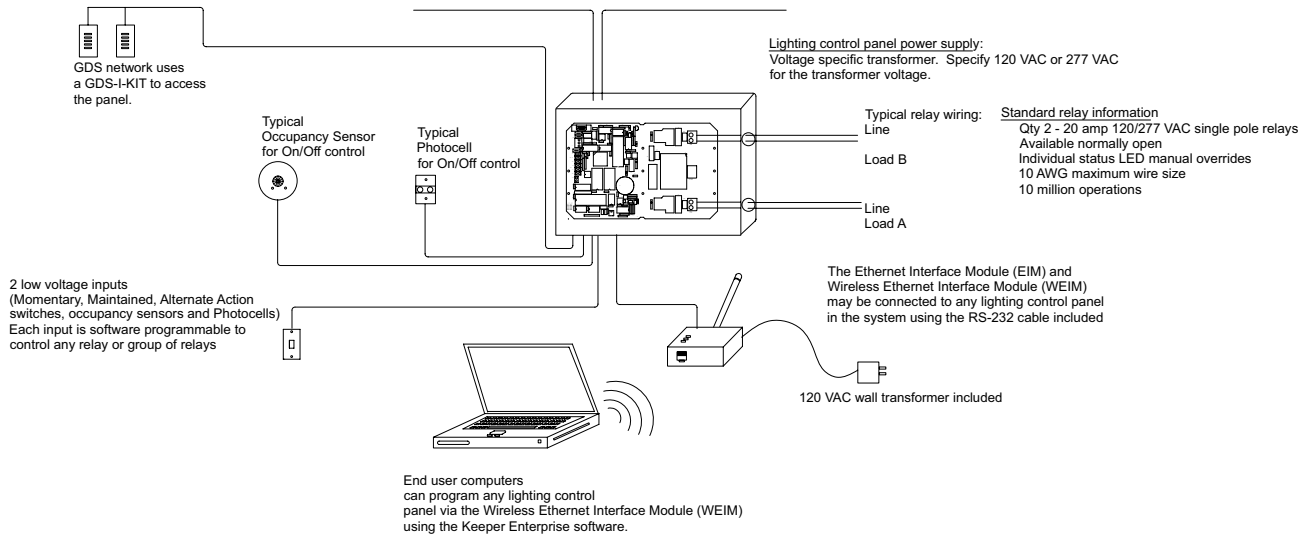Consult website for warranty information

Wiring Diagrams

Reflective Ceiling Plan

Sample One-Line

RS-485 Network
Connect up to 254 ControlKeeper lighting control panels and accessories
1. Daisy-chain all ControlKeeper lighting control panels using twisted pair (Belden #9841) or category 5 cable.
2. Lighting control network up to 4000 feet total length. If greater length is needed RS-485 repeaters are available.

GDS network uses a GDS-I-KIT to access the panel.

Typical Occupancy Sensor for On/Off control

Typical Photocell for On/Off control

Lighting control panel power supply:
Voltage specific transformer. Specify 120 VAC or 277 VAC for the transformer voltage.

Typical relay wiring:
Line
Load B

Line
Load A

Standard relay information
Qty 2 - 20 amp 120/277 VAC single pole relays
Available normally open
Individual status LED manual overrides
10 AWG maximum wire size
10 million operations

2 low voltage inputs
(Momentary, Maintained, Alternate Action switches, occupancy sensors and Photocells)
Each input is software programmable to control any relay or group of relays

The Ethernet Interface Module (EIM) and Wireless Ethernet Interface Module (WEIM) may be connected to any lighting control panel in the system using the RS-232 cable included

120 VAC wall transformer included

End user computers can program any lighting control panel via the Wireless Ethernet Interface Module (WEIM) using the Keeper Enterprise software.

Control Systems
• Greengate