

GLDALI System



The GLDALI SpaceBuilder system is ideal for medium to large spaces that need flexibility to reconfigure zones, adjust color temperature, or control ambient and task lighting within the same space. GLDALI is also a great choice for applications requiring scene-based control when loads are fed from multiple sources. GLDALI systems can also include options such as expansion modules for more load types, touch screens to use for both system set-up as well as end user operation, more sensors, and shade and AV integration.

SpaceBuilder allows you to specify all the necessary features and operations for an autonomous lighting control system specifically designed for the needs of your space. Start by selecting the load types and accessories and finish by defining how each interface should function to control lighting levels, vacancy sensing, daylight harvesting, shades, and AV.

System Components

GLDALI

Available with two DALI® output loops to control up to 64 fixtures. The dual-channel DALI outputs on the GLDALI makes controlling up to 128 individual DALI ballasts or drivers easy. The Digital Addressable Lighting Interface (DALI) is an open standard protocol used for the control of lighting in buildings. All GLDALI systems can be expanded to easily add more zones of lighting.

Keypads

Up to 4 keypads can be added to a GLDALI space. Refer to page 4 for standard sequence of operations to specify the button operations and standard engravings.

Occupancy Sensors

Up to 4 dual technology occupancy sensors can be added to each GLDALI space for either occupancy or vacancy sensing. Each sensor offers coverage for spaces up to 2,000 square feet. Sensor coverage varies based on type, see detail at end of this worksheet. Sensor defaults to vacancy operation unless noted as occupancy operation in the space part number.

Daylight Sensors

Up to 4 daylight sensors can be added to each GLDALI space for daylight harvesting control. Open-loop and closed-loop options are available.

Touch Screens

The GLDALI systems comes with a 7" touch screen to be used for both system set up and master control by the end user.

Options

Loads

Any GLDALI system can be expanded to include additional loads for switching, 0-10V, 2-wire phase, DMX, or switched plug loads.

AV Integration

The GLDALI system can easily integrate with AV systems by adding a control port module. If this options is selected, Crestron will also supply prepackaged code for the AV contractor to connect the systems.

Shade Integration

Integrate with Crestron and other shading solutions. Control for up to 4 local shade motors can be included with each GLDALI system.

Networking

Any Crestron SpaceBuilder system can be networked to provide centralized monitoring, management and master control. This includes direct integration with BMS and reporting, alerts, global time clock management, maintenance, and automation via Crestron Fusion®.

Crestron SolarSync™

GLDALI space can be enhanced with Award winning Crestron SolarSync technology using the industry's only commercial lighting CCT and intensity sensor (GLS-LCCT). Adding the "SYNC" option to the GLDALI space will allow tunable white fixtures to match the color of the measured sun light for smooth transitions from natural to artificial light.

GLDALI _____ - _____ AKP- _____ BKP- _____ CKP- _____ DKP- _____ EKP- _____ FKP- _____ GKP- _____ HKP- _____ NKP-
 _____ PKP- _____ XKP- _____ - _____ - _____ - _____ - _____ - _____
 _____ - _____ - _____ - _____

Date: _____ Project: _____
 Quantity: _____ Space Name: _____
 Space Number(s): _____

GLDALI SpaceBuilder Load Schedule

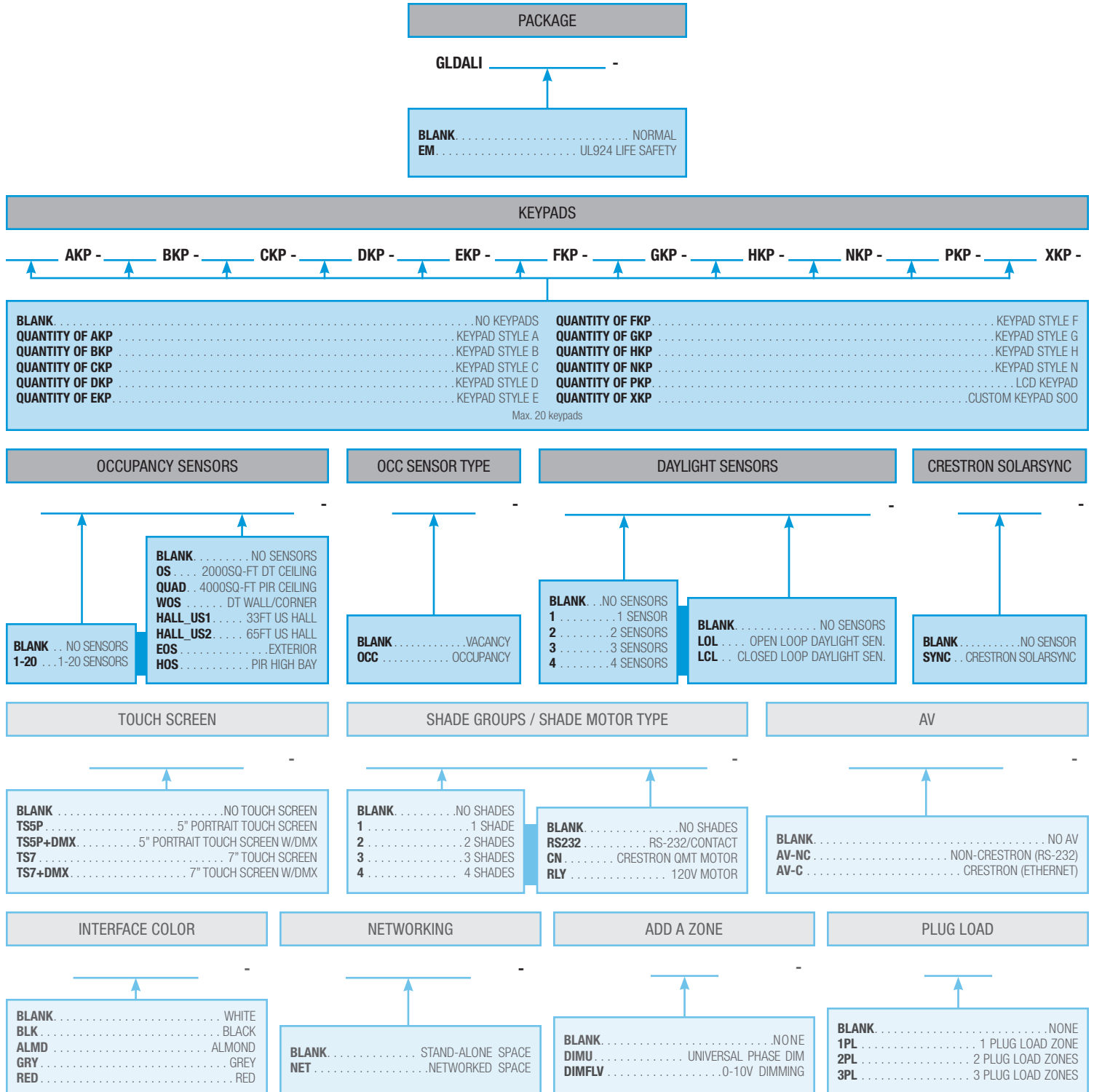
Zone #	Zone Description	Fixture Tag	Circuit #	Voltage	Load Type	Emergency / Life Safety	Dim (Y/N)	Fixture Watts	Quantity	Total Watts
Example	Downlights	A	H@-1	277 V	DALI	N/A	Yes	25	4	100
1					DALI					
2					DALI					
3					DALI					
4					DALI					
5					DALI					
6					DALI					
7					DALI					
8					DALI					
9					DALI					
10					DALI					
11					DALI					
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25					DALI					
26					DALI					
27					DALI					
28					DALI					
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30					DALI					
31					DALI					
32					DALI					

Add a Zone

277 VAC 120 VAC	DALI Universal Phase Dimmed 0-10V 4-Wire Dimmed DMX	N/A Partial Zone Complete Zone	Yes No
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GLDALI____ - ____ AKP-____ BKP-____ CKP-____ DKP-____ EKP-____ FKP-____ GKP-____ HKP-____ NKP-____
 ____ PKP-____ XKP-____ - - - - -
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Date: _____ Project: _____
 Quantity: _____ Space Name: _____
 Space Number(s): _____

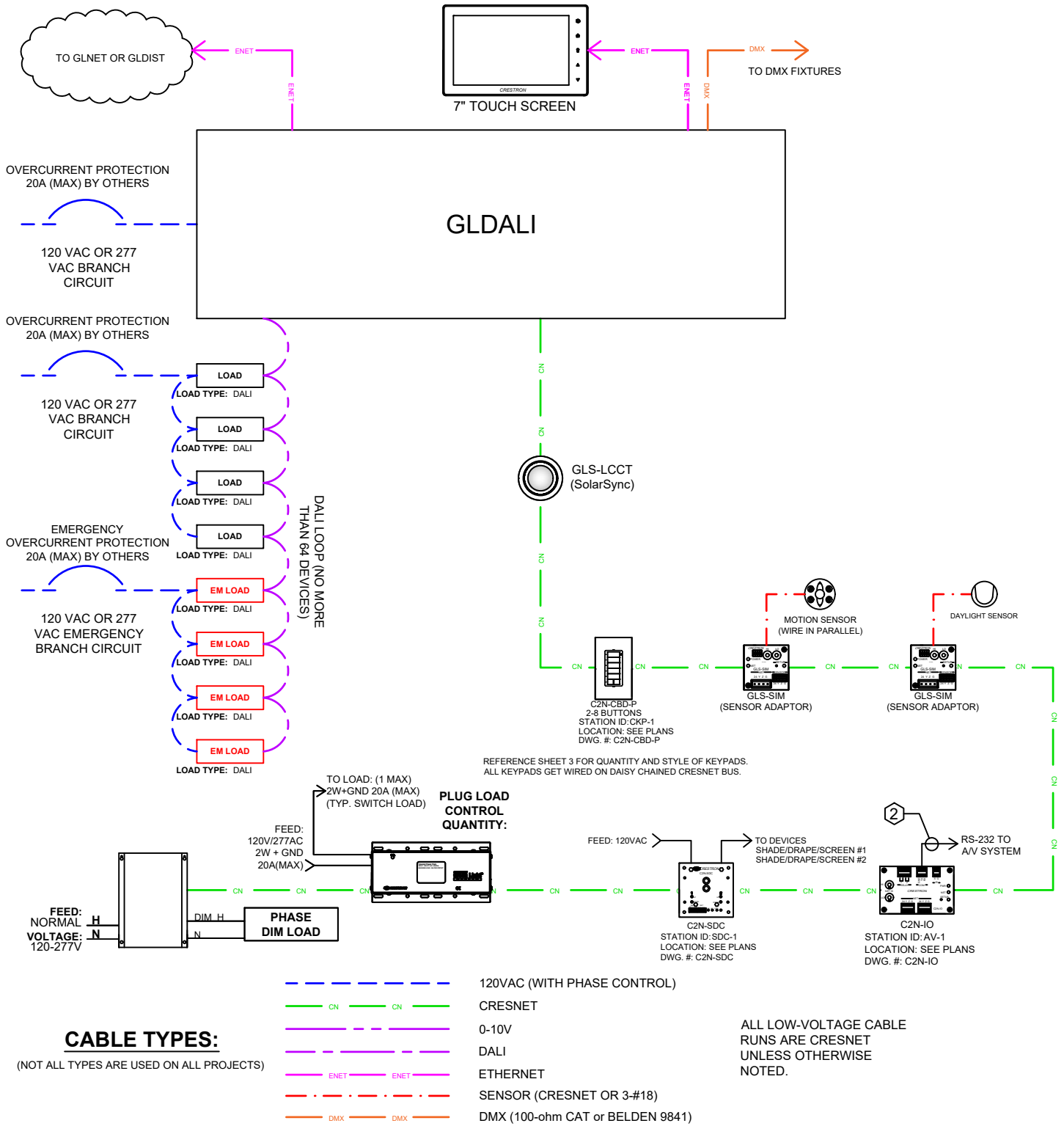


Example: GLDALI - 2FKP - 4NKP - 4QUAD - 1SYNC - NET - DIMU

GLDALI _____ - _____ AKP- _____ BKP- _____ CKP- _____ DKP- _____ EKP- _____ FKP- _____ GKP- _____ HKP- _____ NKP- _____
 _____ PKP- _____ XKP- _____ - _____ - _____ - _____ - _____ - _____ - _____ - _____
 _____ - _____ - _____ - _____ - _____ - _____ - _____ - _____ - _____

Date: _____ Project: _____
 Quantity: _____ Space Name: _____
 Space Number(s): _____

GLDALI SpaceBuilder Schematic Riser



GLDALI _____ - _____ AKP- _____ BKP- _____ CKP- _____ DKP- _____ EKP- _____ FKP- _____ GKP- _____ HKP- _____ NKP- _____

_____ PKP- _____ XKP- _____

Date: _____ Project: _____

Quantity: _____ Space Name: _____

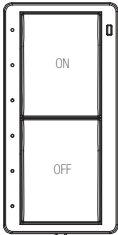
Space Number(s): _____

GLDALI SpaceBuilder Sequence of Operations

KEYPAD TYPE A

Typical Applications

Office, Restroom, Storage/Utility Room, Corridor, Basic Classroom



Button 1 Functionality: ON

- Turn all lights on and enable daylight harvesting
- If daylight sensor is not present, lights will turn on to 100%

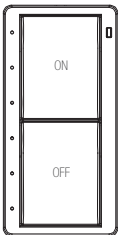
Button 2 Functionality: OFF

- Turn all lights off to 0% and disable daylight harvesting

KEYPAD TYPE B

Typical Applications

Office, Conference Room, Classroom, Library



Button 1 Functionality: ON

- Turn all lights on and enable daylight harvesting
- If daylight sensor is not present, lights will turn on to 100%
- Press and hold will raise all dimmable lighting

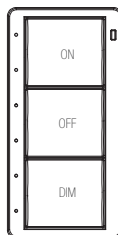
Button 2 Functionality: OFF

- Turn all lights off to 0% and disable daylight harvesting
- Press and hold will lower all dimmable lighting

KEYPAD TYPE C

Typical Applications

Office, Conference Room, Classroom, Library



Button 1 Functionality: ON

- Turn all lights on and enable daylight harvesting
- If daylight sensor is not present, lights will turn on to 100%

Button 2 Functionality: OFF

- Turn all lights off to 0% and disable daylight harvesting

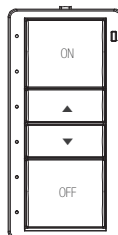
Button 3 Functionality: DIM

- Toggle to dim load up and down

KEYPAD TYPE D

Typical Applications

Office, Conference Room, Classroom, Library



Button 1 Functionality: ON

- Turn all lights on and enable daylight harvesting
- If daylight sensor is not present, lights will turn on to 100%

Button 2 Functionality: ▲

- Dim lights up

Button 3 Functionality: ▼

- Dim lights down

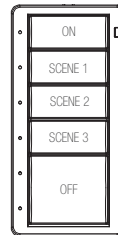
Button 4 Functionality: OFF

- Turn all lights off to 0% and disable daylight harvesting

KEYPAD TYPE E

Typical Applications

Office, Conference Room, Cafeteria, Library, Multipurpose Room, Lobby, Ballroom



Button 1 Functionality: ON

- Turn all lights on and enable daylight harvesting
- If daylight sensor is not present, lights will turn on to 100%

Button 2 Functionality: SCENE 1

- Recalls scene 1 settings with feedback

Button 3 Functionality: SCENE 2

- Recalls scene 2 settings with feedback

Button 4 Functionality: SCENE 3

- Recalls scene 3 settings with feedback

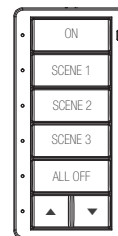
Button 5 Functionality: OFF

- Turn all lights off to 0% and disable daylight harvesting

KEYPAD TYPE F

Typical Applications

Office, Conference Room, Classroom, Library



Button 1 Functionality: ALL ON

- Turn all lights on and enable daylight harvesting
- If daylight sensor is not present, lights will turn on to 100%

Button 2 Functionality: SCENE 1

- Recalls scene 1 settings with feedback

Button 3 Functionality: SCENE 2

- Recalls scene 2 settings with feedback

Button 4 Functionality: SCENE 3

- Recalls scene 3 settings with feedback

Button 5 Functionality: ALL OFF

- Turn all lights off to 0% and disable daylight harvesting

Button 6 Functionality: ▲

- Dim lights up

Button 7 Functionality: ▼

- Dim lights down

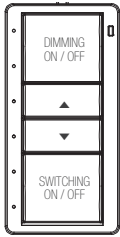
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GLDALI _____ - _____ AKP- _____ BKP- _____ CKP- _____ DKP- _____ EKP- _____ FKP- _____ GKP- _____ HKP- _____ NKP-
 _____ PKP- _____ XKP- _____ - _____ - _____ - _____ - _____ - _____
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Date: _____ Project: _____
 Quantity: _____ Space Name: _____
 Space Number(s): _____

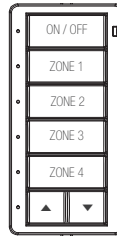
GLDALI SpaceBuilder Sequence of Operations, Continued

KEYPAD TYPE G *Typical Applications: Office, Conference Room, Classroom, Library, Applications where dimming and switching both exist and need separate control*



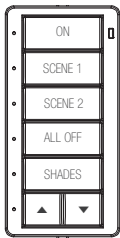
- Button 1 Functionality: DIMMING ON/OFF**
- Toggle dimmable zones on or off with feedback if any lights are on
 - Toggle to turn daylight harvesting on or off
 - If daylight sensor is not present, lights will turn on to 100%
- Button 2 Functionality: ▲**
- Dim lights up
- Button 3 Functionality: ▼**
- Dim lights down
- Button 4 Functionality: SWITCHING ON/OFF**
- Toggle dimmable zones on or off with feedback if any lights are on

KEYPAD TYPE N *Typical Applications: Office, Conference Room, Classroom, Library, Applications where shades control is needed*



- Button 1 Functionality: ALL ON / OFF**
- Toggle all lights on and off
- Button 2 Functionality: ZONE 1**
- Zone 1 on, press and hold for off
- Button 3 Functionality: ZONE 2**
- Zone 2 on, press and hold for off
- Button 4 Functionality: ZONE 3**
- Zone 3 on, press and hold for off
- Button 5 Functionality: ZONE 4**
- Zone 4 on, press and hold for off
- Button 6 Functionality: ▲**
- Dim last touched zone up
- Button 7 Functionality: ▼**
- Dim last touched zone down

KEYPAD TYPE H *Typical Applications: Office, Conference Room, Classroom, Library, Applications where shades control is needed*



- Button 1 Functionality: ALL ON**
- Turn all lights on and enable daylight harvesting
 - If daylight sensor is not present, lights will turn on to 100%
- Button 2 Functionality: SCENE 1**
- Recalls scene 1 settings with feedback
- Button 3 Functionality: SCENE 2**
- Recalls scene 2 settings with feedback
- Button 4 Functionality: ALL OFF**
- Turn all lights off to 0% and disable daylight harvesting
- Button 5 Functionality: SHADES**
- Activates up and down arrows to control shades.
 - After 5 seconds of inactivity, up and down arrows revert back to dimming lights up and down.
- Button 6 Functionality: ▲**
- Dim lights up (shades up when SHADES button is active)
- Button 7 Functionality: ▼**
- Dim lights down (shades down when SHADES button is active)

LCD KEYPAD TYPE P *Typical Applications: Conference Room, Cafeteria, Library, Multipurpose Room, Lobby, Ballroom*



Color LCD keypad gives control of lighting scenes 1, 2 and OFF.

KEYPAD TYPE X *Typical Applications: All applications needing a custom keypad button configuration and functionality*

Custom Keypad S00

Note

By selecting keypad types, the SpaceBuilder system will be programmed, packaged, and shipped from the factory as an operable turnkey lighting control solution. Additional on-site support may be required for scene or sensor calibration.

GLDALI _____ - _____ AKP- _____ BKP- _____ CKP- _____ DKP- _____ EKP- _____ FKP- _____ GKP- _____ HKP- _____ NKP- _____
 _____ PKP- _____ XKP- _____ - _____ - _____ - _____ - _____ - _____
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Date: _____ Project: _____
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GLDALI Specifications

ENCLOSURE

NEMA 1 metal enclosure suitable for installation in plenum air handling spaces.

ENVIRONMENTAL

Temperature:

32° to 104°F (0° to 40°C)

Humidity:

10% to 90% RH (non-condensing)

Heat Dissipation:

44 BTU/hr

DIMENSIONS

Height:

12.313 in (323 mm)

Width:

14.125 in (359 mm)

Depth:

4.375 in (111 mm)

STANDARDS & CERTIFICATIONS

UL 924 Listed (EM option only)

CE

CEC Title 24 2013 Compliant



- › Interfaces with 2 independent DALI[®] loops
- › Controls up to 128 DALI ballasts
- › Cresnet[®] or PoE communication for single-wire installation
- › Integrated DALI power supply
- › Crestron[®] DALI commissioning tool for easy setup
- › Override input available with EM option
- › 9M wide DIN rail mounting

Products in this system can include:

- DIN-DALI-2: DALI Controller
- DIN-EN: Automation Enclosure
- GLS-LCCT: Crestron SolarSync Photosensor
- GLS-ODT-C-CN: Dual Technology Ceiling Mount Occupancy Sensor
- GLG-LOL: Open Loop Daylight Sensor
- GLA-IR-QUATTRO-HD-COM1-24: 4000 sq-ft interior ceiling motion sensor
- GLA-DT-CM-COM1-24: Dual technology corner mount motion sensor
- GLA-US-ONEWAY-COM1-24: Ultrasonic 35ft corridor motion sensor
- GLA-US-HALLWAY-COM1-24: Ultrasonic 65ft corridor motion sensor
- GLA-IS-360: High bay motion sensor
- GLA-HBS-300: Exterior motion sensor
- C2N-IO: Serial RS-232 interface
- TSW-760: 7" Touch Screen
- TSW-560P: 5" Portrait Touch Screen
- C2N-LCDB3: LCD Keypad
- C2N-CBD: Keypad

For technical specifications on all other products in this system, please visit www.crestronlighting.com

For more information or to access digital specification forms for all Crestron SpaceBuilder systems, visit www.crestronspacebuilder.com or call 855-644-7643

Notes:

GLDALI _____ - _____ AKP- _____ BKP- _____ CKP- _____ DKP- _____ EKP- _____ FKP- _____ GKP- _____ HKP- _____ NKP- _____
 _____ PKP- _____ XKP- _____ - _____ - _____ - _____ - _____ - _____
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Date: _____ Project: _____
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