GLPANEL Finish Kit System

CRESTRON

The GLPANEL Finish Kit (FK) system adds accessories such as sensors, keypads and touch screens to provide a complete GLPANEL SpaceBuilder solution.

System Components

Keypads

Up to 20 keypads can be added to a GLPANEL FK space. Refer to page 4 for standard sequence of operations to specify the button operations and standard engravings.

Occupancy Sensors

Up to 20 dual technology occupancy sensors can be added to each GLPANEL FK 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 GLPANEL FK space for daylight harvesting control. Open-loop and closed-loop options are available.

Touch Screens

The GLPANEL FK systems comes with 7" or 5" portrait touch screen options to be used for both system set up and master control by the end user.

Options

AV Integration

The GLPANEL FK 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 GLPANEL FK system.
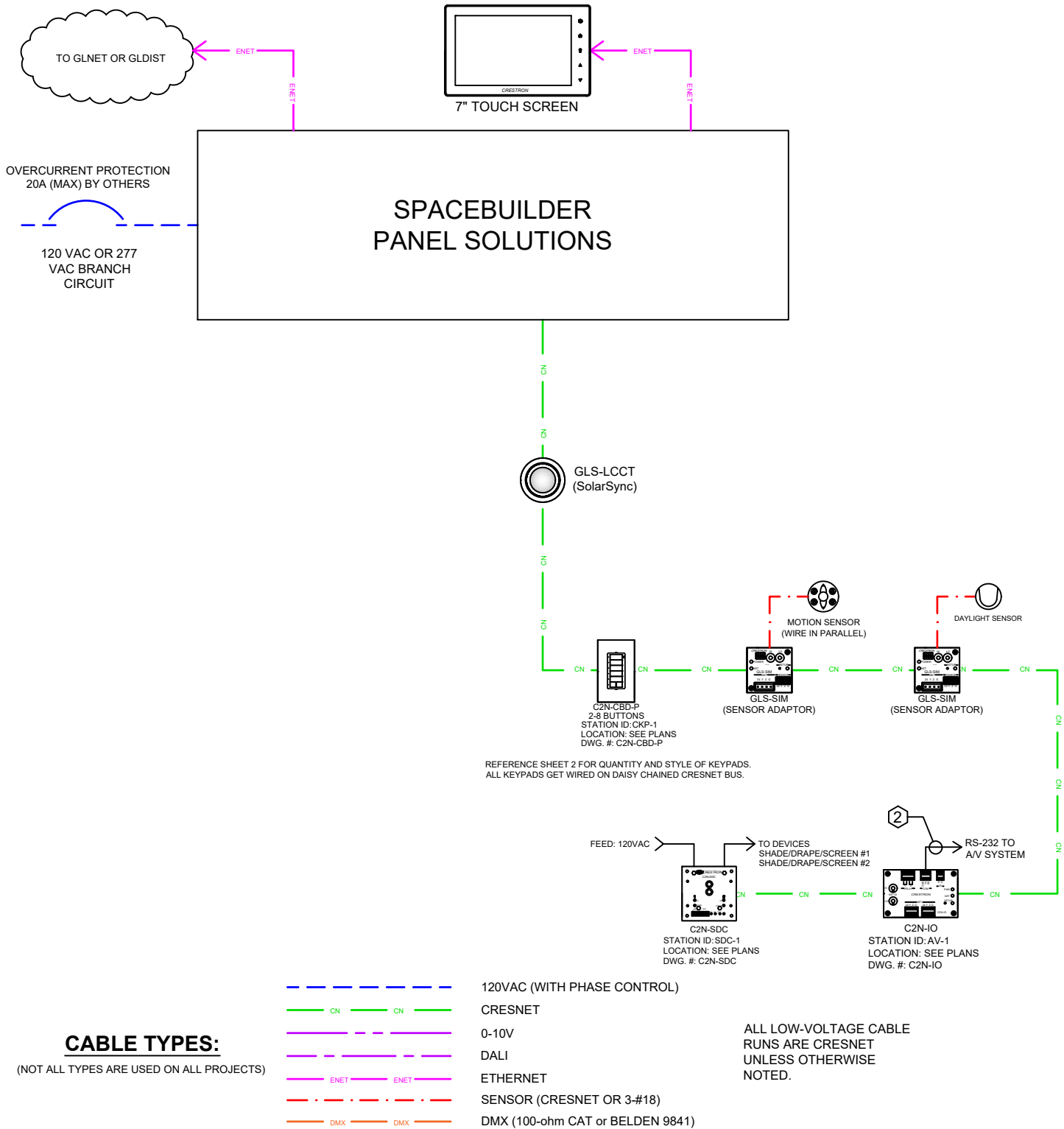
Networking

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™

GLPANEL FK 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 GLPANEL FK space will allow tunable white fixtures to match the color of the measured sun light for smooth transitions from natural to artificial light.

Date:_____   Project:_____

Quantity:_____   Space Name:_____

Space Number(s): _____

PACKAGE

GLPANEL FK -

KEYPADS

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

BLANK . . . . NO KEYPADS	QUANTITY OF FKP . . . . KEYPAD STYLE F
QUANTITY OF AKP . . . . KEYPAD STYLE A	QUANTITY OF GKP . . . . KEYPAD STYLE G
QUANTITY OF BKP . . . . KEYPAD STYLE B	QUANTITY OF HKP . . . . KEYPAD STYLE H
QUANTITY OF CKP . . . . KEYPAD STYLE C	QUANTITY OF NKP . . . . KEYPAD STYLE N
QUANTITY OF DKP . . . . KEYPAD STYLE D	QUANTITY OF PKP . . . . LCD KEYPAD
QUANTITY OF EKP . . . . KEYPAD STYLE E	QUANTITY OF XKP . . . . CUSTOM KEYPAD SOO

Max. 20 keypads

OCCUPANCY SENSORS   OCC SENSOR TYPE   DAYLIGHT SENSORS

-        -   -

OCCUPANCY SENSORS:

BLANK . . . . NO SENSORS	BLANK . . . . NO SENSORS
1-20 . . . . 1-20 SENSORS	OS . . . . 2000SQ-FT DT CEILING
	QUAD . . . . 4000SQ-FT PIR CEILING
	WOS . . . . DT WALL/CORNER
	HALL_US1 . . . . 33FT US HALL
	HALL_US2 . . . . 65FT US HALL
	EOS . . . . EXTERIOR
	HOS . . . . PIR HIGH BAY

OCC SENSOR TYPE:

BLANK . . . . VACANCY
OCC . . . . OCCUPANCY

DAYLIGHT SENSORS:

BLANK . . . . . NO SENSORS	BLANK . . . . NO SENSORS
1 . . . . 1 SENSOR	LOL . . . . . . OPEN LOOP DAYLIGHT SEN.
2 . . . . 2 SENSORS	LCL . . . . . . CLOSED LOOP DAYLIGHT SEN.
3 . . . . 3 SENSORS	
4 . . . . 4 SENSORS	

CRESTRON SOLARSYNC   TOUCH SCREEN   SHADE GROUPS / SHADE MOTOR TYPE

-        -   -

CRESTRON SOLARSYNC:

BLANK . . . . NO SENSOR
SYNC . . . . CRESTRON SOLARSYNC

TOUCH SCREEN:

BLANK . . . . NO TOUCH SCREEN
TS5P . . . . 5" PORTRAIT TOUCH SCREEN
TS7 . . . . 7" TOUCH SCREEN

SHADE GROUPS / SHADE MOTOR TYPE:

BLANK . . . . NO SHADES	BLANK . . . . NO SHADES
1 . . . . 1 SHADE	RS232 . . . . RS-232/CONTACT
2 . . . . 2 SHADES	CN . . . . CRESTRON QMT MOTOR
3 . . . . 3 SHADES	RLY . . . . 120V MOTOR
4 . . . . 4 SHADES	

AV   INTERFACE COLOR   NETWORKING

-        -

AV:

BLANK . . . . NO AV
AV-NC . . . . NON-CRESTRON (RS-232)
AV-C . . . . CRESTRON (ETHERNET)

INTERFACE COLOR:

BLANK . . . . WHITE
BLK . . . . BLACK
ALMD . . . . ALMOND
GRY . . . . GREY
RED . . . . RED

NETWORKING:

BLANK . . . . STAND-ALONE SPACE
NET . . . . NETWORKED SPACE

Example: GLPANEL FK-2AKP-1FKP-2OS-1LOL-SYNC-NET

GLPANEL FK-

___AKP-___BKP-___CKP-___DKP-___EKP-___FKP-___GKP-___HKP-___NKP-___PKP-___XKP-

_____-_____-_____-____-_____-_____-____-_____

Date:_____   Project:_____

Quantity:_____   Space Name:_____

Space Number(s): _____

GLPANEL FK SpaceBuilder Schematic Riser

TO GLNET OR GLDIST

ENET

7" TOUCH SCREEN

CRESTRON

ENET

ENET

ENET

OVERCURRENT PROTECTION
20A (MAX) BY OTHERS

120 VAC OR 277
VAC BRANCH
CIRCUIT

SPACEBUILDER
PANEL SOLUTIONS

CN

CN

GLS-LCCT
(SolarSync)

CN

CN

MOTION SENSOR
(WIRE IN PARALLEL)

DAYLIGHT SENSOR

CN

CN

CN

GLS-SIM
(SENSOR ADAPTOR)

CN

CN

GLS-SIM
(SENSOR ADAPTOR)

CN

C2N-CBD-P
2-8 BUTTONS
STATION ID: CKP-1
LOCATION: SEE PLANS
DWG. #: C2N-CBD-P

REFERENCE SHEET 2 FOR QUANTITY AND STYLE OF KEYPADS.
ALL KEYPADS GET WIRED ON DAISY CHAINED CRESNET BUS.

CN

CN

CN

FEED: 120VAC

TO DEVICES
SHADE/DRAPE/SCREEN #1
SHADE/DRAPE/SCREEN #2

②

RS-232 TO
A/V SYSTEM

CN

CN

CN

CN

CN

C2N-SDC
STATION ID: SDC-1
LOCATION: SEE PLANS
DWG. #: C2N-SDC

C2N-IO
STATION ID: AV-1
LOCATION: SEE PLANS
DWG. #: C2N-IO

CABLE TYPES:
(NOT ALL TYPES ARE USED ON ALL PROJECTS)

120VAC (WITH PHASE CONTROL)	
CN — CN	CRESNET
	0-10V
	DALI
ENET — ENET	ETHERNET
	SENSOR (CRESNET OR 3-#18)
DMX — DMX	DMX (100-ohm CAT or BELDEN 9841)

ALL LOW-VOLTAGE CABLE
RUNS ARE CRESNET
UNLESS OTHERWISE
NOTED.

Date:_____   Project:_____

Quantity:_____   Space Name:_____

Space Number(s): _____

GLPANEL FK 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
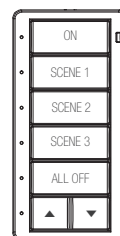> If daylight sensor is not present, lights will turn on to 100%

Button 2 Functionality: OFF
> Turn all lights off to 0% and disable daylight harvesting

KEYPAD TYPE B

Typical Applications
Office, Conference Room, Classroom, Library
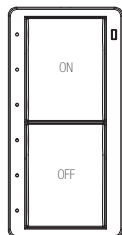
Button 1 Functionality: ON
> Turn all lights on and enable daylight harvesting
> If daylight sensor is not present, lights will turn on to 100%
> Press and hold will raise all dimmable lighting

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
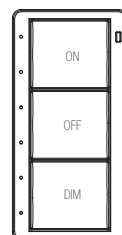
Button 1 Functionality: ON
> Turn all lights on and enable daylight harvesting
> If daylight sensor is not present, lights will turn on to 100%

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
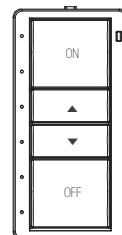
Button 1 Functionality: ON
> Turn all lights on and enable daylight harvesting
> If daylight sensor is not present, lights will turn on to 100%

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
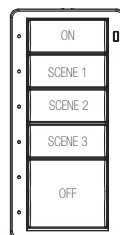
Button 1 Functionality: ON
> Turn all lights on and enable daylight harvesting
> If daylight sensor is not present, lights will turn on to 100%

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

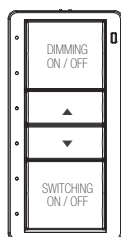Date:_____   Project:_____

Quantity:_____   Space Name:_____

Space Number(s): _____

GLPANEL FK 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 H

Typical Applications: Office, Conference Room, Classroom, Library, Applications where shades control is needed
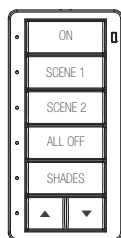
Button 1 Functionality: ALL ON
> Turn all lights on and enable daylight harvesting
> If daylight sensor is not present, lights will turn on to 100%

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.
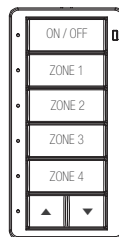
Button 6 Functionality: ▲
> Dim lights up (shades up when SHADES button is active)

Button 7 Functionality: ▼
> Dim lights down (shades down when SHADES button is active)

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

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 SOO

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.

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

GLPANEL FK Specifications

ENCLOSURE
NEMA 1 metal enclosure suitable for instalation 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

Products in this system can include:

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:

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