intelligent lighting controls
Simplifying Lighting Controls from Installation to Use
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EVO Pre-Program Mode - Table of Contents

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F 3	**Two Office, 1 or 2-Zone, 1-Daylight Zones, MZD1, MZD2** Photo sensor inputs for 1 daylight zone per room, motion sensor inputs for Occupancy On at 50% or Vacancy control, Remote digital CAT-5 LightSync G3 MZD2 or MZD1 per room, standard button switches for local room control
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F 5	**Two Room, 3-Zone, 1 Daylight Zone & 1-Zone, 1-Daylight Zone** Photo sensor inputs for 1 daylight zone per room, motion sensor inputs for Occupancy On at 50% or Vacancy control, Remote digital CAT-5 LightSync G3 MZD or standard button switches for local room control
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F 7	**Four Office, 1-Zone each, Occupancy, 1-Daylight Zone, MZD1, 2-Scene** Photo sensor inputs for daylight zones (PC1 & PC2), motion sensor inputs for Occupancy On at 50%, auxiliary Photo Sensor controller inputs (PC3 & PC4) Remote digital CAT-5 LightSync G3 MZD On-50%/Off, 1-button Non-Dim switches for local room control, G3 2-Scene, Dim to 0%-Off + Raise/Lower
F 8	**Four Office, 1-Zone each, Vacancy, 1-Daylight Zone, MZD1, 2-Scene** Photo sensor inputs for daylight zones (PC1 & PC2), Motion sensor inputs for Manual-On Vacancy-Off control, auxiliary Photo Sensor controller inputs (PC3 & PC4) Remote digital CAT-5 LightSync G3 MZD On-50%/Off, 1-button Non-Dim switches for local room control, G3 2-Scene, Dim to 0%-Off + Raise/Lower
F 9	**Corridor/Stairwell, 1 or 2-Zone, Occupancy High/Low Dim, 1 Daylight Zone** Photo sensor inputs for 1 daylight zone(PC-1), Motion sensor inputs for Occupancy On-High/Off or Dim level control with Building Open/Closed change of sequence Remote digital CAT-5 LightSync control On-Off(Open)/Timed On-2Hr (Closed) Key switch or 1-Button switch's, and Optional hardwired key switch input (OSC: 03.4)
F A	**Classroom, 3-Zone (a, b, bc, c) w/1 Daylight Zone, MZD3, 2-Scene** Photo sensor inputs for 1 daylight zone (b/bc), motion sensor inputs for Occupancy, Vacancy or Occupancy on at 50% Remote digital CAT-5 LightSync 2-Scene, Off, Raise/Lower. One MZD-3 and Three independent 1-zone MZD type switches for "a", "b", "c" and G3-3S/3MZD switches
F B	**Classroom, 3-Zone (a, b, bc, c) w/1 Daylight Zone, MZD3, 3-Scene, 3-Scene/3-MZD** Photo sensor inputs for 1 daylight zone (b/bc), motion sensor inputs for Occupancy, Vacancy or Occupancy on at 50% Remote digital CAT-5 LightSync 3-Scene, Off, Raise/Lower. One MZD-3 and Three independent 1-zone MZD type switches for "a", "b", "c"
F C	**Conference room 4-Zone w/1-Daylight Zone, 5-Scene, MZD4, AV, TSS-2** Photo sensor inputs for 1 daylight zones, Motion sensor inputs for Occupancy or Vacancy control, or Occupancy on at 50% Remote digital CAT-5 LightSync 4-Scene + Off station, MZD3 station, MZD1 for display wall lighting, AV Interface (LSSI-232) with Scene operation
F D	**Double Conference room 4-Zone w/1-Daylight Zone, 5-Scene, MZD4, AV, TSS-2** Photo sensor inputs for 1 or 2 daylight zones, Motion sensor inputs for Occupancy or Vacancy and Occupancy On at 50% using A LSOSI (LS:13) remote module Remote digital CAT-5 LightSync G3 4-Scene + Off switches, MZD-4 switches, MZD1 for display wall lighting, AV Interface (LSSI-232) with Scene operation
F E	**Open Office, 3 or 4-Zone Open/Close Timer sweep, 2-independent Daylight Zones** Photo sensor inputs for 1 or 2 daylight zones, Timer 1 Open - 6:00am ON / Timer 2 Close - 10:00pm - Off sweep repeated every 2 hours w/Blink Alert Remote digital CAT-5 LightSync G3 MZD or standard button switches for local room control
F F	**Open Office, 3 or 4-Zone Motion-On (Open) On/Off (Close time), 2-independent Daylight** Photo sensor inputs for 1 or 2 daylight zones, Timer 1 Open 6:00am ON / Timer 2 Close - 10:00pm - Off sweep repeated every 2 hours w/Blink Alert Remote digital CAT-5 LightSync G3 MZD4,or MZD3, standard button switches for local room control, Occupancy Sensor Inputs change from "On Only" during the day to ON/Off at night

Library, Lobby, Cafeteria - EVO Pre-Program: F0

Library, Lobby, 3 or 4-Zone, 2-independent Daylight Zones 3-Scene, MZD4, MZD1
Photo sensor inputs for 1 or 2 daylight zones, motion sensor inputs for Occupancy, Vacancy or Occupancy On at 50%
Remote digital CAT-5 LightSync G3 3-Scene switch +Off and Raise/Lower buttons, one LSG3-MZD4 switch for control of all zones, and a 1-Zone MZD for each zone.

Node Address:	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync G3 Input Devices							
	Relay #	PC-1	PC-2	IN-1	IN-2	IN-3	IN-4	LS-G3 3 Scene	LS-G3 MZD4	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 1ZND	LS-
	Dimmer #	LS: 01	LS: 02	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04/05	LS: 06/07	LS: 08	LS: 09	LS: 0A	LS: 0B	LS: 0C	LS: 0D
F 0	Relay 1 Dim 01.1			Occ-on/off	Vacancy-off Inv-in 0%	Occ-On/Off On-50%	On/Off Togg On-50%	S:1,2,3,4-Off Ramp Up/Dn	PB:1 On/Off Ramp Up/Dn	PB:1 On/Off Ramp Up/Dn				On/Off Togg.	
MSB / LSB	Relay 2 Dim 01.2			Occ-on/off	Vacancy-off Inv-in 0%	Occ-On/Off On-50%	On/Off Togg On-50%	S:1,2,3,4-Off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn		PB:1 On/Off Ramp Up/Dn			On/Off Togg.	
	Relay 3 Dim 01.3	Full Scale		Occ-on/off	Vacancy-off Inv-in 0%	Occ-On/Off On-50%/PC1	On/Off Togg On-50%	S:1,2,3,4-Off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn			PB:1 On/Off Ramp Up/Dn		On/Off Togg.	
	Relay 4 Dim 01.4		Full scale	Occ-on/off	Vacancy-off Inv-in 0%	Occ-On/Off On-50%/PC2	On/Off Togg On-50%	S:1,2,3,4-Off Ramp Up/Dn	PB:4-on/off Ramp Up/Dn				PB:1-on/off Ramp Up/Dn	On/Off Togg.	
								PB:4-Off 0%	PB:5-Off R1-4						

Additional device addresses for a LSOSI with 800mA power and individual zone control, additional Scene switch, and 1-buton All-On/Off for 3-Way operation.

Lobby, Cafeteria, Library, Open space Code Compliant Room Type - CA, Title-24: CD 0008, 0009 Ashrae 90.1: CD 0208 IECC: CD 0408

Node Address:	Output:	LSOSI (800mA power - 24V Motion sensor)								Additional G3 Switches for 3-Way operation					
	Relay #	IN-1	IN-2	IN-3	IN-4	IN-5	IN-6	IN-7	IN-8	LS-G3 3 Scene		LSG3 2S/4MZD	LS-	LS-G3 1ZND	LS-
	Dimmer #	LS: 13.1	LS: 13.2	LS: 13.3	LS: 13.4	LS: 13.5	LS: 13.6	LS: 13.7	LS: 13.8	LS: 14/15		LS: 18/19/1A	LS:	LS: 1C	LS:
F 0	Relay 1 Dim 01.1	Vacancy-off Inv-in 0%	Occ-On/Off On-50%							S:1,2,3,4-Off Ramp Up/Dn		S:1,2 / PB:3 Ramp Up/Dn		On/Off Togg.	
MSB / LSB	Relay 2 Dim 01.2			Vacancy-off Inv-in 0%	Occ-On/Off On-50%					S:1,2,3,4-Off Ramp Up/Dn		S:1,2 / PB:4 Ramp Up/Dn		On/Off Togg.	
	Relay 3 Dim 01.3					Vacancy-off Inv-in 0%	Occ-On/Off On-50%/PC1			S:1,2,3,4-Off Ramp Up/Dn		S:1,2 / PB:5 Ramp Up/Dn		On/Off Togg.	
	Relay 4 Dim 01.4							Vacancy-off Inv-in 0%	Occ-On/Off On-50%/PC2	S:1,2,3,4-Off Ramp Up/Dn		S:1,2 / PB:6 Ramp Up/Dn		On/Off Togg.	
										PB:4-Off 0%					

(Remote OSIM 8-Input option for independent zone control)

This Application is intended for a 4-zone or 3-zone space, it supports two 3-Scene switch (LS:04 & 14) providing 3-scene recall and capture, Off, Ramp-Up/Down dimming control
Default scene levels are set (LS:04 and 14) for S1=50%(5), S2=100%(10), S3=20%(2), Off=0%(41). The S/MZD switch(LS:18) S1=50%(15), S2=20%(12).
Photosensor input 1 controls zone-3 and PC-2 controls zone-4, a single PC sensor can be connected to both inputs to reduce sensor hardware if combined control is required.
Occupancy inputs at the EVO panel are set for #1=All ON/OFF, #2=Vacancy, #3=On at 50%/Off. #4 is set for a hardwire momentary 2-wire switch with On-50%/Off control.
Remote LSOSI Occupancy module (LS:13) supports 4 individual zones with 2 inputs each, Vacancy & On at 50%/Off, and up to 800mA total load across all 8 inputs.
A 4-Zone MZD switch (LS:06) for individual dimming control from one location, and 4 individual 1-Zone dimming switch's for optional area control stations.
These 4 switches (LS: 08, 09, 0A, 0B) could be used for an area requiring independent dimming control for serving area, desk, white board or video monitor.
2-Single button non-dim (LS:0C & 1C) provide a All On/Off switch from 2 locations.
LSG3 2S/4MZD is a 2-Scene/4-Zone switch (LS:18) will operate scene 1 and 2 (for all 4 zones) plus 4 independent on/off Zone buttons with dimming.
Note: For Non-Capture Scene switch contact tech support to change the switch configuration type.

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General Room - EVO Pre-Program: F1

General Room, 3 or 4-Zone, 2-independent Daylight Zones, MZD3, MZD4

Photo sensor inputs for 2 independent daylight zones with individual sensors, motion sensor inputs for Occupancy, Vacancy control or Occupancy On at 50%, On-50% Off toggle SPST switch. Remote digital CAT-5 LightSync G3 MZD or standard button switches for local room control w/3-ways setting, 1-each Individual Zone switch w/dimming

Node	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync G3 Input Devices							
Address:	Relay #	PC-1	PC-2	IN-1	IN-2	IN-3	IN-4	LS-G3 MZD4	LS-G3 MZD3	LS-G3 1ZND	LS-G3 2ZND	LS-	LS-	LS-	LS-
	Dimmer #	LS: 01	LS: 02	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04/05	LS: 06/07	LS: 08	LS: 09	LS: 0A	LS: 0B	LS: 0C	LS: 0D
F 1	Relay 1 Dim 01.1			Occ-on/off	Vacancy-off	Occ-On/Off On-50%	On/Off Togg On-50%	PB:1-on/off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	On/Off Togg.	PB:1-on/off	PB:1-on/off Ramp Up/Dn			
MSB / LSB	Relay 2 Dim 01.2			Occ-on/off	Vacancy-off	Occ-On/Off On-50%	On/Off Togg On-50%	PB:2-on/off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn	On/Off Togg.	PB:2-on/off		PB:2-on/off Ramp Up/Dn		
	Relay 3 Dim 01.3		Full scale	Occ-on/off	Vacancy-off	Occ-On/Off On-50%/PC2	On/Off Togg On-50%/PC2	PB:3-on/off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn	On/Off Togg.	PB:1-on/off			PB:3-on/off Ramp Up/Dn	
	Relay 4 Dim 01.4	Full scale		Occ-on/off	Vacancy-off	Occ-On/Off On-50%/PC1	On/Off Togg On-50%/PC1	PB:4-on/off Ramp Up/Dn		On/Off Togg.	PB:2-on/off				PB:4-on/off Ramp Up/Dn
								PB:5-Off R1-4	PB:4-Off R1-3		PB:3-Off R1-4				

Additional G3 switch addresses for 3-Way operation

Open Office Code Compliant Room Type - CA, Title-24: CD 0012 Ashrae 90.1: CD 0212 IECC: CD 0411, 0412

Node	Output:	Additional Inputs						Additional G3 Switches for 3-Way operation							
Address:	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LS-G3 MZD4	LS-G3 MZD3	LS-G3 1ZND	LS-G3 2ZND	LS-	LS-	LS-	LS-
	Dimmer #	LS:	LS:	LS:	LS:	LS:	LS:	LS: 14/15	LS: 16/17	LS: 18	LS: 19	LS:	LS:	LS:	LS:
F 1	Relay 1 Dim 01.1							PB:1-on/off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	On/Off Togg.	PB:1-on/off				
MSB / LSB	Relay 2 Dim 01.2							PB:2-on/off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn	On/Off Togg.	PB:2-on/off				
	Relay 3 Dim 01.3							PB:3-on/off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn	On/Off Togg.	PB:1-on/off				
	Relay 4 Dim 01.4							PB:4-on/off Ramp Up/Dn		On/Off Togg.	PB:2-on/off				
								PB:5-Off R1-4	PB:4-Off R1-3		PB:3-Off R1-4				

General Room - EVO Pre-Program: F2

General Room, 3 or 4-Zone, 1-Photocell, 2-Daylight Zones, MZD3, MZD4

Photo sensor inputs for 2 daylight zones from One sensor, motion sensor inputs for Occupancy, Vacancy control, Occupancy On at 50%/Off, and On-100% /Off-50%.

Remote digital CAT-5 LightSync G3 MZD or standard button switches for local room control

Node	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync G3 Input Devices							
Address:	Relay #	PC-1	PC-2	IN-1	IN-2	IN-3	IN-4	LS-G3 MZD4	LS-G3 MZD3	LS-G3 1ZND	LS-G3 2ZND	MZD1/1ZND	MZD1/1ZND	MZD1/1ZND	MZD1/1ZND
	Dimmer #	LS: 01	LS: 02	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04/05	LS: 06/07	LS: 08	LS: 09	LS: 0A	LS: 0B	LS: 0C	LS: 0D
F 2	Relay 1 Dim 01.1			Occ-on/off	Vacancy-off	Occ-On/Off On-50%	On 100/Off 50% Inv-In 50%	PB:1-on/off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	On/Off Togg.	PB:1-on/off	PB:1-on/off Ramp Up/Dn			
MSB / LSB	Relay 2 Dim 01.2			Occ-on/off	Vacancy-off	Occ-On/Off On-50%	On 100/Off 50% Inv-In 50%	PB:2-on/off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn	On/Off Togg.	PB:2-on/off		PB:2-on/off Ramp Up/Dn		
	Relay 3 Dim 01.3	-10% scale		Occ-on/off	Vacancy-off	Occ-On/Off On-50%/PC1	On 100/Off 50% Inv-In 50%/PC1	PB:3-on/off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn	On/Off Togg.	PB:1-on/off			PB:3-on/off Ramp Up/Dn	
	Relay 4 Dim 01.4	Full scale	On/Off 110/137	Occ-on/off	Vacancy-off	Occ-On/Off On-50%/PC1	On 100/Off 50% Inv-In 50%/PC1	PB:4-on/off Ramp Up/Dn		On/Off Togg.	PB:2-on/off				PB:4-on/off Ramp Up/Dn
			25fc/75fc					PB:5-Off R1-4	PB:4-Off R1-3		PB:3-Off R1-4				

PC-2 is *Disabled* When Relay 2 is Off -*Or* - If PC1 > 0 fc to preventing a False On operation for R4 in Inboard/Outboard A/B control

A/B - On/Off control

Additional G3 switch addresses for 3-Way operation

Device 09 & 19 are set for traditional 2-Zone Inboard/Outboard 2-Level switching, with Photocell control of R4 on/off when R2 is Off -*Or* - If PC1 is > 0 fc

Open Office Code Compliant Room Type - CA, Title-24: CD 0012 Ashrae 90.1: CD 0212 IECC: CD 0411, 0412 & 0410

Node	Output:	Additional Inputs						Additional G3 Switches for 3-Way operation							
Address:	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LS-G3 MZD4	LS-G3 MZD3	LS-G3 1ZND	LS-G3 2ZND	LS-	LS-	LS-	LS-
	Dimmer #	LS:	LS:	LS:	LS:	LS:	LS:	LS: 14/15	LS: 16/17	LS: 18	LS: 19	LS:1A	LS:1B	LS:1C	LS:1D
F 2	Relay 1 Dim 01.1							PB:1-on/off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	On/Off Togg.	PB:1-on/off				
MSB / LSB	Relay 2 Dim 01.2							PB:2-on/off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn	On/Off Togg.	PB:2-on/off				
	Relay 3 Dim 01.3							PB:3-on/off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn	On/Off Togg.	PB:1-on/off				
	Relay 4 Dim 01.4							PB:4-on/off Ramp Up/Dn		On/Off Togg.	PB:2-on/off				

Two Office - EVO Pre-Program: F3

Two Office, 1 or 2-Zone, 1-Daylight Zones, MZD1, MZD2

Photo sensor inputs for 1 daylight zone per room, motion sensor inputs for Occupancy On at 50% or Vacancy control,
Remote digital CAT-5 LightSync G3 MZD-2 or MZD-1 per room, standard button switches for local room control

Node Address:	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync Input Devices							
	Relay #	PC-1	PC-2	IN-1	IN-2	IN-3	IN-4	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD2	LS-G3 MZD2	LS-	LS-
	Dimmer #	LS: 01	LS: 02	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04	LS: 05	LS: 06	LS: 07	LS: 08/09	LS: 0A/0B	LS:	LS:
F 3	Relay 1 Dim 01.1			Occ-on/off On-50%	Vacancy-off			PB:1-on/off Ramp Up/Dn				PB:1-on/off Ramp Up/Dn			
MSB / LSB	Relay 2 Dim 01.2	Full scale		Occ-on/off On-50%/PC1	Vacancy-off				PB:1-on/off Ramp Up/Dn			PB:2-on/off Ramp Up/Dn			
	Relay 3 Dim 01.3					Occ-on/off On-50%	Vacancy-off			PB:1-on/off Ramp Up/Dn			PB:1-on/off Ramp Up/Dn		
	Relay 4 Dim 01.4		Full Scale			Occ-on/off On-50%/PC2	Vacancy-off				PB:1-on/off Ramp Up/Dn		PB:2-on/off Ramp Up/Dn		
												PB:3-Off R1,2	PB:3-Off R1,2		

Additional G3 switch addresses for 3-Way operation

Private Office Code Compliant Room Type - CA, Title-24: CD 0005, 0006, 0007 Ashrae 90.1: CD 0206 0207 IECC: CD 0406, 0407

Node Address:	Output:	Additional Inputs						Additional G3 Switches for 3-Way operation							
	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD2	LS-G3 MZD2	LS-	LS-
	Dimmer #	LS:	LS:	LS:	LS:	LS:	LS:	LS: 14	LS: 15	LS: 16	LS: 17	LS: 18/19	LS: 1A/1B	LS:	LS:
F 3	Relay 1 Dim 01.1							PB:1-on/off Ramp Up/Dn				PB:1-on/off Ramp Up/Dn			
MSB / LSB	Relay 2 Dim 01.2								PB:1-on/off Ramp Up/Dn			PB:2-on/off Ramp Up/Dn			
	Relay 3 Dim 01.3									PB:1-on/off Ramp Up/Dn			PB:1-on/off Ramp Up/Dn		
	Relay 4 Dim 01.4										PB:1-on/off Ramp Up/Dn		PB:2-on/off Ramp Up/Dn		
								MZD1 & 1ZND operation can be used for G3 or G2 switches				PB:3-Off R1,2	PB:3-Off R1,2		

Two Office - EVO Pre-Program: F4

Two Office, 1 or 2-Zone, 2-Daylight Zones, MZD1, MZD2

Photo sensor inputs for 2 daylight zone per room(one at -10% reduction), motion sensor inputs for Occupancy On at 50% or Vacancy control,

Remote digital CAT-5 LightSync G3 MZD or standard button switches for local room control

Node Address:	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync Input Devices							
	Relay #	PC-1	PC-2	IN-1	IN-2	IN-3	IN-4	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD2	LS-G3 MZD2	LS-	LS-
	Dimmer #	LS: 01	LS: 02	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04	LS: 05	LS: 06	LS: 07	LS: 08/09	LS: 0A/0B	LS:	LS:
F 4	Relay 1 Dim 01.1	-10% scale		Occ-on/off On-50%/PC1	Vacancy-off			PB:1-on/off Ramp Up/Dn				PB:1-on/off Ramp Up/Dn			
MSB / LSB	Relay 2 Dim 01.2	Full scale		Occ-on/off On-50%/PC1	Vacancy-off				PB:1-on/off Ramp Up/Dn			PB:2-on/off Ramp Up/Dn			
	Relay 3 Dim 01.3		-10% scale			Occ-on/off On-50%/PC2	Vacancy-off			PB:1-on/off Ramp Up/Dn			PB:1-on/off Ramp Up/Dn		
	Relay 4 Dim 01.4		Full scale			Occ-on/off On-50%/PC2	Vacancy-off				PB:1-on/off Ramp Up/Dn		PB:2-on/off Ramp Up/Dn		
												PB:3-Off R1,2	PB:3- Off R1,2		

Additional G3 switch addresses for 3-Way operation

Private Office Code Compliant Room Type - CA, Title-24: CD 0005, 0006, 0007 Ashrae 90.1: CD 0206 0207 IECC: CD 0406, 0407

Node Address:	Output:	Additional Inputs						Additional G3 Switches for 3-Way operation							
	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD2	LS-G3 MZD2	LS-	LS-
	Dimmer #	LS:	LS:	LS:	LS:	LS:	LS:	LS: 14	LS: 15	LS: 16	LS: 17	LS: 18/19	LS: 1A/1B	LS:	LS:
F 4	Relay 1 Dim 01.1							PB:1-on/off Ramp Up/Dn				PB:1-on/off Ramp Up/Dn			
MSB / LSB	Relay 2 Dim 01.2								PB:1-on/off Ramp Up/Dn			PB:2-on/off Ramp Up/Dn			
	Relay 3 Dim 01.3									PB:1-on/off Ramp Up/Dn			PB:1-on/off Ramp Up/Dn		
	Relay 4 Dim 01.4										PB:1-on/off Ramp Up/Dn		PB:2-on/off Ramp Up/Dn		
								MZD1 & 1ZND operation can be used for G3 or G2 switches				PB:3-Off R1,2	PB:3-Off R1,2		

Two Rooms (3/1) - EVO Pre-Program: F5

Two Room, 3-Zone, 1 Daylight Zone & 1-Zone, 1-Daylight Zone

Photo sensor inputs for 1 daylight zone per room, motion sensor inputs for Occupancy On at 50% or Vacancy control,

Remote digital CAT-5 LightSync G3 MZD or standard button switches for local room control

Node	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync Input Devices				On/Off Push Button Non-Dim			
Address:	Relay #	PC-1	PC-2	IN-1	IN-2	IN-3	IN-4	LS-G3 MZD3	LS-G3 MZD2	LS-G3 MZD1	LS-G3 MZD1	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND
	Dimmer #	LS: 01	LS: 02	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04/05	LS: 06/07	LS: 08	LS: 09	LS: 0A	LS: 0B	LS: 0C	LS: 0D
F 5	Relay 1 Dim 01.1			Occ-on/off On-50%	Vacancy-off			PB:1-on/off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn			On/Off Togg.	On/Off Togg.		
MSB / LSB	Relay 2 Dim 01.2			Occ-on/off On-50%	Vacancy-off			PB:2-on/off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn			On/Off Togg.	On/Off Togg.		
	Relay 3 Dim 01.3	Full scale		Occ-on/off On-50%/PC1	Vacancy-off			PB:3 on/off Ramp Up/Dn			PB:1-on/off Ramp Up/Dn	On/Off Togg.		On/Off Togg.	
	Relay 4 Dim 01.4		Full Scale			Occ-on/off On-50%/PC2	Vacancy-off			PB:1-on/off Ramp Up/Dn					On/Off Togg.
								PB:4-Off R1-3	PB:3-Off R1,2						

MZD1 & 1ZND operation can be used for G3 or G2 switches

Additional G3 switch addresses for 3-Way operation

3 or 2 zone Private or Open Office Code Compliant Room Type - CA, Title-24: CD 0007, 0012 Ashrae 90.1: CD 0207 0212 IECC: CD 0407, 0412

Node	Output:	Additional Inputs						Additional G3 Switches for 3-Way operation							
Address:	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LS-G3 MZD3	LS-G3 MZD2	LS-G3 MZD1	LS-G3 MZD1	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND
	Dimmer #	LS:	LS:	LS:	LS:	LS:	LS:	LS: 14/15	LS: 16/17	LS: 18	LS: 19	LS: 1A	LS: 1B	LS: 1C	LS: 1D
F 5	Relay 1 Dim 01.1							PB:1-on/off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn			On/Off Togg.	On/Off Togg.		
MSB / LSB	Relay 2 Dim 01.2							PB:2-on/off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn			On/Off Togg.	On/Off Togg.		
	Relay 3 Dim 01.3							PB:3-on/off Ramp Up/Dn			PB:1-on/off Ramp Up/Dn	On/Off Togg.		On/Off Togg.	
	Relay 4 Dim 01.4									PB:1-on/off Ramp Up/Dn					On/Off Togg.
								PB:4-Off R1-3	PB:3-Off R1,2						

MZD1 & 1ZND operation can be used for G3 or G2 switches

Two Rooms (3/1) -EVO Pre-Program: F6

Two Room, 3-Zone, 2 Daylight Zone & 1-Zone, 1-Daylight Zone

Photo sensor inputs for 2 daylight zone in the 3-zone room and 1 daylight sensor in the 1-zone room, motion sensor inputs for Occupancy on at 50% or Vacancy control, Remote digital CAT-5 LightSync G3 MZD or standard button switches for local room control

Node Address:	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync Input Devices				On/Off Push Button Non-Dim			
	Relay #	PC-1	PC-2	IN-1	IN-2	IN-3	IN-4	LS-G3 MZD3	LS-G3 MZD2	LS-G3 MZD1	LS-G3 MZD1	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND
	Dimmer #	LS: 01	LS: 02	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04/05	LS: 06/07	LS: 08	LS: 09	LS: 0A	LS: 0B	LS: 0C	LS: 0D
F 6	Relay 1 Dim 01.1			Occ-on/off On-50%	Vacancy-off			PB:1-on/off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn			On/Off Togg.	On/Off Togg.		
MSB / LSB	Relay 2 Dim 01.2	-10% scale		Occ-on/off On-50%/PC1	Vacancy-off			PB:2-on/off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn			On/Off Togg.	On/Off Togg.		
	Relay 3 Dim 01.3	Full scale		Occ-on/off On-50%/PC1	Vacancy-off			PB:3 on/off Ramp Up/Dn			PB:1-on/off Ramp Up/Dn	On/Off Togg.		On/Off Togg.	
	Relay 4 Dim 01.4		Full Scale			Occ-on/off On-50%/PC2	Vacancy-off			PB:1-on/off Ramp Up/Dn					On/Off Togg.
								PB:4-Off R1-3	PB:3-Off R1,2						

MZD1 & 1ZND operation can be used for G3 or G2 switches

Additional G3 switch addresses for 3-Way operation

3 or 2 zone Private or Open Office Code Compliant Room Type - CA, Title-24: CD 0007, 0012 Ashrae 90.1: CD 0207 0212 IECC: CD 0407, 0412

Node Address:	Output:	Additional Inputs						Additional G3 Switches for 3-Way operation							
	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LS-G3 MZD3	LS-G3 MZD2	LS-G3 MZD1	LS-G3 MZD1	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND
	Dimmer #	LS:	LS:	LS:	LS:	LS:	LS:	LS: 14/15	LS: 16/17	LS: 18	LS: 19	LS: 1A	LS: 1B	LS: 1C	LS: 1D
F 6	Relay 1 Dim 01.1							PB:1-on/off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn			On/Off Tog.	On/Off Togg.		
MSB / LSB	Relay 2 Dim 01.2							PB:2-on/off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn			On/Off Togg.	On/Off Togg.		
	Relay 3 Dim 01.3							PB:3-on/off Ramp Up/Dn			PB:1-on/off Ramp Up/Dn	On/Off Togg.		On/Off Togg.	
	Relay 4 Dim 01.4									PB:1-on/off Ramp Up/Dn					On/Off Togg.
								PB:4-Off R1-3	PB:3-Off R1,2						

MZD1 & 1ZND operation can be used for G3 or G2 switches

Four Office (Occupancy) - EVO Pre-Program: F7

Four Office, 1-Zone each, Occupancy, 1-Daylight Zone, MZD1, 2-Scene

Photo sensor inputs for daylight zones (PC1 & PC2), motion sensor inputs for Occupancy On at 50%, auxiliary Photo Sensor controller inputs (PC3 & PC4)

Remote digital CAT-5 LightSync G3 MZD On-50%/Off, 1-button Non-Dim switches for local room control, G3 2-Scene, Dim to 0%-Off + Raise/Lower

Node Address:	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync Input Devices				G3 2-Scene switch, Dim to off and Raise/Lower			
	Relay #	PC-1	PC-2	IN-1	IN-2	IN-3	IN-4	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 2S	LS-G3 2S	LS-G3 2S	LS-G3 2S
	Dimmer #	LS: 01	LS: 02	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04	LS: 05	LS: 06	LS: 07	LS: 08/09	LS: 0A/0B	LS: 0C/0D	LS: 0E/0F
F 7	Relay 1 Dim 01.1	Full scale		Occ-on/off On-50%/PC1				On-50%/Off Ramp Up/Dn				S:1,2,3-Off Ramp Up/Dn			
MSB / LSB	Relay 2 Dim 01.2		Full scale		Occ-on/off On-50%/PC2				On-50%/Off Ramp Up/Dn				S:1,2,3-Off Ramp Up/Dn		
	Relay 3 Dim 01.3					Occ-on/off On-50%/PC3				On-50%/Off Ramp Up/Dn				S:1,2,3-Off Ramp Up/Dn	
	Relay 4 Dim 01.4						Occ-on/off On-50%/PC4				On-50%/Off Ramp Up/Dn				S:1,2,3-Off Ramp Up/Dn

MZD1 & 1ZND operation can be used for G3 or G2 switches G3 Scene operation can be used for a G2-5 Button

Additional G3 switch addresses for 3-Way operation

1-Zone Private/Public Restroom Code Compliant Type - CA, Title-24: CD 0001, 0002, Ashrae 90.1: CD 0201, 0202 IECC: CD 0401, 0402

1-Zone Private Office Code Compliant Type - CA, Title-24: CD 0005, 0006, Ashrae 90.1: CD 0205, 0206 IECC: CD 0405, 0406

Node Address:	Output:	Remote Photo Sensors Inpu		Momentary 3-Wire Toggle Switch inputs				Additional G3 Switches for 3-Way operation				G3 2-Scene switch, Dim to off and Raise/Lower			
	Relay #	LS- PSC-3	LS- PSC-4	LSIM				LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 2S	LS-G3 2S	LS-G3 2S	LS-G3 2S
	Dimmer #	LS: 11	LS: 12	LS: 13.1	LS:13.2	LS: 13.3	LS: 13.4	LS: 14	LS: 15	LS: 16	LS: 17	LS: 18/19	LS: 1A/1B	LS: 1C/1D	LS: 1E/1F
F 7	Relay 1 Dim 01.1			Mom On/Off On-50%				On-50%/Off Ramp Up/Dn				S:1,2,3-Off Ramp Up/Dn			
MSB / LSB	Relay 2 Dim 01.2				Mom On/Off On-50%				On-50%/Off Ramp Up/Dn				S:1,2,3-Off Ramp Up/Dn		
	Relay 3 Dim 01.3	Full scale				Mom On/Off On-50%				On-50%/Off Ramp Up/Dn				S:1,2,3-Off Ramp Up/Dn	
	Relay 4 Dim 01.4		Full Scale				Mom On/Off On-50%				On-50%/Off Ramp Up/Dn				S:1,2,3-Off Ramp Up/Dn

MZD1 & 1ZND operation can be used for G3 or G2 switches G3 Scene 1,2 operation can be used with a G2-5 Button
the Capture operation is suported by G3 only

Node Address:	Output:	Additional Inputs		Momentary 2-Wire Push Button/Toggle Switch inputs											
	Relay #	LS-	LS-	LSIM				LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-
	Dimmer #	LS:	LS:	LS: 23.1	LS:23.2	LS: 23.3	LS: 23.4	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:
F 7	Relay 1 Dim 01.1			PB Toggle On-50%											
MSB / LSB	Relay 2 Dim 01.2				PB Toggle On-50%										
	Relay 3 Dim 01.3					PB Toggle On-50%									
	Relay 4 Dim 01.4						PB Toggle On-50%								

Scene Switch:	Scene action:	Dimmer 1	Dimmer 2	Dimmer 3	Dimmer 4
Button 1	Scene 1 = 50%	Scene 05	Scene 15	Scene 25	Scene 35
Button 2	Scene 2 = 20%	Scene 02	Scene 12	Scene 22	Scene 32
Button 3	Scene 3 = 0%	Scene 41/Off	Scene 42/Off	Scene 43/Off	Scene 44/Off

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Four Office (Vacancy) - EVO Pre-Program: F8

Four Office, 1-Zone each, Vacancy, 1-Daylight Zone, MZD1, 2-Scene

Photo sensor inputs for daylight zones (PC1 & PC2), Motion sensor inputs for Manual-On Vacancy-Off control, auxiliary Photo Sensor controller inputs (PC3 & PC4)

Remote digital CAT-5 LightSync G3 MZD On-50%/Off, 1-button Non-Dim switches for local room control, G3 2-Scene, Dim to 0%-Off + Raise/Lower

Node Address:	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync Input Devices				G3 2-Scene switch, Dim to off and Raise/Lower			
	Relay #	PC-1	PC-2	IN-1	IN-2	IN-3	IN-4	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 2S	LS-G3 2S	LS-G3 2S	LS-G3 2S
	Dimmer #	LS: 01	LS: 02	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04	LS: 05	LS: 06	LS: 07	LS: 08/09	LS: 0A/0B	LS: 0C/0D	LS: 0E/0F
F 8	Relay 1 Dim 01.1	Full scale		Vacancy-off Inv-in 0%				On-50%/Off Ramp Up/Dn				S:1,2,3-Off Ramp Up/Dn			
MSB / LSB	Relay 2 Dim 01.2		Full scale		Vacancy-off Inv-in 0%				On-50%/Off Ramp Up/Dn				S:4,5,6-Off Ramp Up/Dn		
	Relay 3 Dim 01.3					Vacancy-off Inv-in 0%				On-50%/Off Ramp Up/Dn				S:7,8,9-Off Ramp Up/Dn	
	Relay 4 Dim 01.4						Vacancy-off Inv-in 0%				On-50%/Off Ramp Up/Dn				S:10.11.12-Off Ramp Up/Dn

MZD1 & 1ZND operation can be used for G3 or G2 switches

G3 Scene 1,2 operation can be used with a G2-5 Button the Capture operation is suported by G3 only

Additional G3 switch addresses for 3-Way operation

1-Zone Private/Public Restroom Code Compliant Type - CA, Title-24: CD 0001, 0002, Ashrae 90.1: CD 0201, 0202 IECC: CD 0401, 0402

1-Zone Private Office Code Compliant Type - CA, Title-24: CD 0005, 0006, Ashrae 90.1: CD 0205, 0206 IECC: CD 0405, 0406

Node Address:	Output:	Remote Photo Sensors Inputs		Momentary 2-Wire Push Button/Toggle Switch inputs				Additional G3 Switches for 3-Way operation				G3 2-Scene switch, Dim to off and Raise/Lower			
	Relay #	LS- PSC-3	LS- PSC-4	LSIM				LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 2S	LS-G3 2S	LS-G3 2S	LS-G3 2S
	Dimmer #	LS: 11	LS: 12	LS: 13.1	LS:13.2	LS: 13.3	LS: 13.4	LS: 14	LS: 15	LS: 16	LS: 17	LS: 18/19	LS: 1A/1B	LS: 1C/1D	LS: 1E/1F
F 8	Relay 1 Dim 01.1			Mom On/Off On-50%				On-50%/Off Ramp Up/Dn				S:1,2,3-Off Ramp Up/Dn			
MSB / LSB	Relay 2 Dim 01.2				Mom On/Off On-50%				On-50%/Off Ramp Up/Dn				S:1,2,3-Off Ramp Up/Dn		
	Relay 3 Dim 01.3	Full scale				Mom On/Off On-50%				On-50%/Off Ramp Up/Dn				S:1,2,3-Off Ramp Up/Dn	
	Relay 4 Dim 01.4		Full Scale				Mom On/Off On-50%				On-50%/Off Ramp Up/Dn				S:1,2,3-Off Ramp Up/Dn

MZD1 & 1ZND operation can be used for G3 or G2 switches

G3 Scene 1,2 operation can be used with a G2-5 Button the Capture operation is suported by G3 only

Node Address:	Output:	Additional Inputs		Momentary 2-Wire Toggle Switch inputs											
	Relay #	LS-	LS-	LSIM				LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-
	Dimmer #	LS:	LS:	LS: 23.1	LS:23.2	LS: 23.3	LS: 23.4	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:
F 8	Relay 1 Dim 01.1			PB Toggle On-50%											
MSB / LSB	Relay 2 Dim 01.2				BP Toggle On-50%										
	Relay 3 Dim 01.3					BP Toggle On-50%									
	Relay 4 Dim 01.4						BP Toggle On-50%								

Scene Switch:	Scene Action:	Dimmer 1	Dimmer 2	Dimmer 3	Dimmer 4
Button 1	Scene 1 = 50%	Scene 05	Scene 15	Scene 25	Scene 35
Button 2	Scene 2 = 20%	Scene 02	Scene 12	Scene 22	Scene 32
Button 3	Scene 3 = 0%	Scene 41/Off	Scene 42/Off	Scene 43/Off	Scene 44/Off

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Corridor/Stairwell-EVO Pre-Program: F9

Corridor/Stairwell, 1 or 2-Zone, Occupancy High/Low Dim, 1 Daylight Zone

Photo sensor inputs for 1 daylight zone(PC-1), Motion sensor inputs for Occupancy On-High/Off or Dim level control with Building Open/Closed change of sequence

Remote digital CAT-5 LightSync G3 control On-Off(Open)/Timed On-2Hr (Closed) Key switch or 1-Button switch's, and Optional hardwired key switch input (OSC: 03.4)

Node Address:	Output:	Photosensor	EVO Inputs - 4-input, 24VDC Motion Sensor 200mA				Relay 1 & 2 Remote LightSync Input Devices (6 possible)							
	Relay #	PC-1	IN-1 *	IN-2 *	IN-3	IN-4	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND	LS-	LS-
	Dimmer #	LS: 01	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04	LS: 05	LS: 06	LS: 07	LS: 08	LS: 09	LS:	LS:
F 9	Relay 1		A = PB-On	Disable	A = MNT-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On		
	Dim 01.1		On 100/Off 50%		On 100/Off 50%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%		
MSB / LSB	"		Disable	B=MNT-On/Off	B = MNT-On	B= Timed ON	B= Timed ON	B= Timed ON	B= Timed ON	B= Timed ON	B= Timed ON	B= Timed ON		
R1 & 2	"			On 100%	On 100/Off 50%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%		
	Relay 2		A = PB-On	Disable	A = MNT-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On		
	Dim 01.2	Full Scale	On 100/Off 50%		On 100/Off 50%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%		
	"		Disable	B=MNT-On/Off	B = MNT-On	B= Timed ON	B= Timed ON	B= Timed ON	B=Timed ON	B=Timed ON	B=Timed ON	B=Timed ON		
	"	"		On 100%	On 100/Off 50%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%		

Alternate/Adder (F9) start at 13 and use a LSOSI module for 800mA power - supporting 1 Corridor or Stairwell using Relay 3 & 4 for 2 relay power circuits as 1-zone.

Photo sensor inputs for 1 daylight zone (PC-2), motion sensor inputs for Occupancy on/off control or Occupancy On + dimming ON (High/Low)

Remote digital CAT-5 LightSync (14-19 6-addresses) for local control On-Off/Timed On-2Hr. (Closed) Key switch or 1-Button switches, and Optional key switch (OSC: 13.4)

Node Address:	Output:	Photosensor	LightSync: 13 = LSOSI - 8-input, 24V Motion Sensor 800mA				Relay 3 & 4 Remote LightSync Input Devices (6 possible)							
	Relay #	PC-2	IN-1 *	IN-2 *	IN-3	IN-4	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND	LS-G3 1ZND	LS-	LS-
	Dimmer #	LS: 02	LS: 13.1	LS: 13.2	LS: 13.3	LS: 13.4	LS: 14	LS: 15	LS: 16	LS: 17	LS: 18	LS: 19	LS:	LS:
F 9	Relay 3		A = PB-On	Disable	A = MNT-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On		
	Dim 01.3		On 100/Off 50%		On 100/Off 50%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%		
MSB / LSB	"		Disable	B=MNT-On/Off	B = MNT-On	B= Timed ON	B= Timed ON	B= Timed ON	B= Timed ON	B= Timed ON	B= Timed ON	B= Timed ON		
R3 & 4	"			On 100%	On 100/Off 50%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%		
	Relay 4		A = PB-On	Disable	A = MNT-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On	A = PB-On		
	Dim 01.4	Full Scale	On 100/Off 50%		On 100/Off 50%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%		
	"		Disable	B=MNT-On/Off	B = MNT-On	B= Timed ON	B= Timed ON	B= Timed ON	B= Timed ON	B= Timed ON	B= Timed ON	B= Timed ON		
	"	"		On 100%	On 100/Off 50%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%	On 100%		

Open/Closer - Time setting		
Days	Open	Close
Sunday	6:00 AM	10:00 PM
Monday	6:00 AM	10:00 PM
Thursday	6:00 AM	10:00 PM
Wednesday	6:00 AM	10:00 PM
Thursday	6:00 AM	10:00 PM
Friday	6:00 AM	10:00 PM
Saturday	6:00 AM	10:00 PM

*** This panel requires the Occupancy sensor to be wired to Inputs 1&2 for Day/Night operation**

The 2 Inputs become Enabled/Disabled by the Open/Close timer 7 Days a week

Input 1 operates the load 1&2 for Occupied ON at 100%, and Unoccupied to 50%

Input 2 operates the load 1&2 for Occupied ON at 100%, and Unoccupied Off

Input 3 is used for a Maintained Key True-*Override* switch and will Force the relays 1&2 ON at 100%

This input is a "Conditional Relay ON" and disables the panels other inputs for the 2 loads until the Mnt. Input 3 is released

Input 4 and the 6 LightSync digital switch addresses are used for a Momentary key, PB or Toggle switch's as a local On station

There type "A" operation is On at 100% during the Open or Day cycle as a momentary action

There type "B" operation is On at 100% for 2 Hours (120Min) during the Closed or Night cycle

These operations are the same for Relay/Dimmer outputs 3&4 using a remote LSOS8I at LS:13 and up to 6 LS Digital switches at LS:14-19

This EVO Panel *must have* an Internal Clock (EVO-TC) for timer operation or be networked

If No clock is present the panel will remain at 12:00 Midnight in the Closed "B" operation

Refer to Code Drawings CD0003, 0004 (Title 24) CD0203,0204 (ASHRAE) CD0403, 0404(IECC)

Classroom - EVO Pre-Program: FA

Classroom, 3-Zone (a, b, bc, c) w/1 Daylight Zone, MZD3, 2-Scene

Photo sensor inputs for 1 daylight zone (b/bc), motion sensor inputs for Occupancy, Vacancy or Occupancy on at 50%

Remote digital CAT-5 LightSync G3 2-Scene, Off, Raise/Lower. One MZD-3 and Three independent 1-zone MZD type switches for "a", "b", "c" and G3-3S/3MZD switches

Node	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync Input Devices							
Address:	Relay #	PC-1	PC-2	IN-1	IN-2	IN-3	IN-4	LS-G3-2 Scene	LS-G3 MZD3	LS-G3-2 Scene		LS-	LS-G3 1MZD	LS-	
	Dimmer #	LS: 01 "b"	LS: 02	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04/05	LS: 06/07	LS: 08/09		LS:OA	LS: 0B	LS:OC	
F A	Relay 1 (a) Dim 01.1			Occ-on/off	Vacancy-off	Occ-on/off On-50%	On/Off Togg	S:1,2,3-Off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	S:1,2,3-Off Ramp Up/Dn			S:1,2,3-Off Ramp Up/Dn		
MSB / LSB	Relay 2 (b) Dim 01.2	Full Scale (b)		Occ-on/off	Vacancy-off	Occ-on/off On-50%/PC1	On/Off Togg	S:1,2,3-Off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn	S:1,2,3-Off Ramp Up/Dn			S:1,2,3-Off Ramp Up/Dn		
	Relay 3 (bc) Dim 01.3	Full Scale (b)		Occ-on/off	Vacancy-off	Occ-on/off On-50%/PC1	On/Off Togg	S:1,2,3-Off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn	S:1,2,3-Off Ramp Up/Dn			S:1,2,3-Off Ramp Up/Dn		
	Relay 4 (c) Dim 01.4			Occ-on/off	Vacancy-off	Occ-on/off On-50%	On/Off Togg	S:1,2,3-Off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn	S:1,2,3-Off Ramp Up/Dn			S:1,2,3-Off Ramp Up/Dn		
EVO-4X	Relay #							PB:3-Off 0%	PB:4 Off R1-4	PB:3-Off 0%			PB:3-Off 0%		
Address:	Dimmer #	Additional relays for second Daylight Zone controlled by area "a" and "c" switches and photocell													
O2	Relay 5 (a2) Dim 02.1	-10% Scale (a2)		Occ-on/off	Vacancy-off	Occ-on/off On-50%/PC1	On/Off Togg	S:1,2,3-Off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	S:1,2,3-Off Ramp Up/Dn			S:1,2,3-Off Ramp Up/Dn		
	Relay 6 (a2c) Dim 02.2	-10% Scale (a2c)		Occ-on/off	Vacancy-off	Occ-on/off On-50%/PC1	On/Off Togg	S:1,2,3-Off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn	S:1,2,3-Off Ramp Up/Dn			S:1,2,3-Off Ramp Up/Dn		

Additional G3 switch addresses for 3-Way operation

Standard Momentary SPST Toggle Switch can be connected at OSC input 4 (LS:03.4), or up to 2 LS-G3 1Z ND All-On/Off switches at LS:0B & 1B

Node	Output:	Additional Inputs						Additional G3 Switches for 3-Way operation							
Address:	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LS-G3-2 Scene	LS-G3 MZD3	LS-	LS-	LS-	LS-G3 1ZND	LS-	LS-
	Dimmer #	LS:0E	LS:0F	LS:10	LS:11	LS:12	LS:13	LS: 14/15	LS: 16/17	LS:18	LS:19	LS:1A	LS: 1B		
F A	Relay 1 Dim 01.1							S:1,2,3-Off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn				On/Off Togg.		
MSB / LSB	Relay 2 Dim 01.2							S:1,2,3-Off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn				On/Off Togg.		
	Relay 3 Dim 01.3							S:1,2,3-Off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn				On/Off Togg.		
	Relay 4 Dim 01.4							S:1,2,3-Off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn				On/Off Togg.		
EVO-4X	Relay #							PB:3-Off 0%	PB:4 Off R1-4						
Address:	Dimmer #	Additional relays for second Daylight Zone controlled by area "a" and "c" switches and photocell													
O2	Relay 5 (a2) Dim 02.1							S:1,2,3-Off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn				On/Off Togg.		
	Relay 6 (a2c) Dim 02.2							S:1,2,3-Off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn				On/Off Togg.		

All Scenes can be field set using the scene capture operation, Default setting are S1(10)=100%, S2(05)=50%, Off/S3(41)=0% (For Scene switches 04 and 14

LSG3-MZD3 provides for 3-MZD control with press and hold dimmer zone selection.

LSG3-2 Scene switch (LS:08) is programed for Scene-1 On (100%), Scene-2 (Preset 1) Classroom at 20% (R1,2 & 5), Smart-board at 0% (R3,4 & 6), Off = 0% (No Capture operation 6-1-21)

EVO-4X panel (Address 02) can be added for classrooms requiring a 2nd Daylight zone "a2" and"a2c" at a 10% reduction from the "b" daylight zone.

Classroom - EVO Pre-Program: FB

Classroom, 3-Zone (a, b, bc, c) w/1 Daylight Zone, MZD3, 3-Scene, 3-Scene/3-MZD

Photo sensor inputs for 1 daylight zone (b/bc), motion sensor inputs for Occupancy, Vacancy or Occupancy on at 50%

Remote digital CAT-5 LightSync G3 3-Scene, Off, Raise/Lower. One MZD-3 and Three independent 1-zone MZD type switches for "a", "b", "c"

Node	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync Input Devices							
Address:	Relay #	PC-1	PC-2	IN-1	IN-2	IN-3	IN-4	LS-G3-3 Scene	LS-G3 MZD3	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 1ZND	LSG3 3S/MZD3	
	Dimmer #	LS: 01 "b"	LS: 02	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04/05	LS: 06/07	LS: 08 "a"	LS: 09 "b"	LS: 0A "c"	LS: 0B	LS: 0C/0D/0E	
F B	Relay 1 (a)			Occ-on/off	Vacancy-off	Occ-on/off	On/Off Togg	S:1,2,3,4-Off	PB:1-on/off	PB1-On/Off			On/Off Togg.	S:1,2,3-Off/Z1	
	Dim 01.1					On-50%		Ramp Up/Dn	Ramp Up/Dn	Ramp Up/Dn				Ramp Up/Dn	
MSB / LSB	Relay 2 (b)			Occ-on/off	Vacancy-off	Occ-on/off	On/Off Togg	S:1,2,3,4-Off	PB:2-on/off		PB1-On/Off		On/Off Togg.	S:1,2,3-Off/Z2	
	Dim 01.2	Full Scale (b)				On-50%/PC1		Ramp Up/Dn	Ramp Up/Dn		Ramp Up/Dn			Ramp Up/Dn	
	Relay 3 (bc)			Occ-on/off	Vacancy-off	Occ-on/off	On/Off Togg	S:1,2,3,4-Off	PB:3-on/off			PB1-On/Off	On/Off Togg.	S:1,2,3-Off/Z3	
	Dim 01.3	Full Scale (b)				On-50%/PC1		Ramp Up/Dn	Ramp Up/Dn			Ramp Up/Dn		Ramp Up/Dn	
	Relay 4 (c)			Occ-on/off	Vacancy-off	Occ-on/off	On/Off Togg	S:1,2,3,4-Off	PB:3-on/off			PB1-On/Off	On/Off Togg.	S:1,2,3-Off/Z,3	
	Dim 01.4					On-50%/PC1		Ramp Up/Dn	Ramp Up/Dn			Ramp Up/Dn		Ramp Up/Dn	
EVO-4X	Relay #							PB:3-Off 0%	PB:4 Off R1-4					Off=G:1(R1,2,3,4)	
Address:	Dimmer #	Additional relays for second Daylight Zone controlled by area "a" and "c" switches and photocell													
O2	Relay 5 (a2)			Occ-on/off	Vacancy-off	Occ-on/off	On/Off Togg	S:1,2,3,4-Off	PB:1-on/off	PB1-On/Off			On/Off Togg.	S:1,2,3-Off/Z1	
	Dim 02.1	-10% Scale (a2)				On-50%/PC1		Ramp Up/Dn	Ramp Up/Dn	Ramp Up/Dn				Ramp Up/Dn	
	Relay 6 (a2c)			Occ-on/off	Vacancy-off	Occ-on/off	On/Off Togg	S:1,2,3,4-Off	PB:3-on/off			PB1-On/Off	On/Off Togg.	S:1,2,3-Off/Z3	
	Dim 02.2	-10% Scale (a2c)				On-50%/PC1		Ramp Up/Dn	Ramp Up/Dn			Ramp Up/Dn		Ramp Up/Dn	

Additional G3 switch addresses for 3-Way operation

Standard Momentary SPST Toggle Switch can be connected at OSC input 4 (LS:03.4), or up to Two LS-G3-1Z-ND All-On/Off switch's at LS:0B & 1B

Node	Output:	Additional Inputs						Additional G3 Switches for 3-Way operation							
Address:	Relay #	LS-	LS-	LS-	LS-	LS-		LS-G3-3 Scene	LS-G3 MZD3	LS-	LS-	LS-	LS-G3 1ZND	LSG3 3S/MZD3	LS-
	Dimmer #	LS:0F	LS:10	LS:11	LS:12	LS:13		LS: 14/15	LS: 16/17	LS:18	LS:19	LS:1A	LS: 1B	LS: 1C/1D/1E	LS:
F B	Relay 1							S:1,2,3,4-Off	PB:1-on/off				On/Off Togg.	S:1,2,3-Off/Z1	
	Dim 01.1							Ramp Up/Dn	Ramp Up/Dn					Ramp Up/Dn	
MSB / LSB	Relay 2							S:1,2,3,4-Off	PB:2-on/off				On/Off Togg.	S:1,2,3-Off/Z2	
	Dim 01.2							Ramp Up/Dn	Ramp Up/Dn					Ramp Up/Dn	
	Relay 3							S:1,2,3,4-Off	PB:3-on/off				On/Off Togg.	S:1,2,3-Off/Z3	
	Dim 01.3							Ramp Up/Dn	Ramp Up/Dn					Ramp Up/Dn	
	Relay 4							S:1,2,3,4-Off	PB:3-on/off				On/Off Togg.	S:1,2,3-Off/Z3	
	Dim 01.4							Ramp Up/Dn	Ramp Up/Dn					Ramp Up/Dn	
EVO-4X	Relay #							PB:3-Off 0%	PB:4 Off R1-4					Off=G:1(R1,2,3,4)	
Address:	Dimmer #	Additional relays for second Daylight Zone controlled by area "a" and "c" switches and photocell													
O2	Relay 5 (a2)							S:1,2,3,4-Off	PB:1-on/off				On/Off Togg.	S:1,2,3-Off/Z1	
	Dim 02.1							Ramp Up/Dn	Ramp Up/Dn					Ramp Up/Dn	
	Relay 6 (a2c)							S:1,2,3,4-Off	PB:3-on/off				On/Off Togg.	S:1,2,3-Off/Z3	
	Dim 02.2							Ramp Up/Dn	Ramp Up/Dn					Ramp Up/Dn	

All Scenes can be fieldset using the scene capture operation, Default setting are S1(10)=100%, S2(05)=50%, S3(02)=20%, Off/S4(41)=0%

LSG3-MZD3 provides for 3-MZD control with press and hold dimmer zone selection.

LSG3-3S/MZD3 provides both a 3-Scene and 3-MZD control in a single switch device location, S1(10)=100%, S2(05)=50%, S3(02)= 20%.

EVO-4X panel (Address:02) can be added for classrooms requiring a 2nd Daylight zone "a2" and"a2c" at a 10% reduction from the "b" daylight zone.

Conference Room - EVO Pre-Program: FC

Conference room 4-Zone w/1-Daylight Zone, 5-Scene, MZD4, AV, TSS-2

Photo sensor inputs for 1 daylight zones, Motion sensor inputs for Occupancy or Vacancy control, or Occupancy on at 50%

Remote digital CAT-5 LightSync G3 5-Scene + Off station, MZD3 station, MZD1 for display wall lighting, AV Interface (LSSI-232) with Scene operation

Node	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				LightSync Input Devices		A/V interface	1-Zone switches				
Address:	Relay #	PC-1	PC-2	IN-1	IN-2	IN-3	IN-4	LSG3-5 Scene	LSG3-MZD4	LSSI-323 (AV)	LSG3 MZD1	LSG3 MZD1	LSG3 MZD1	LSG3 MZD1	
	Dimmer #	LS: 01	LS: 02	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04/05	LS: 06/07	LS: 08	LS:0A	LS:0B	LS:0C	LS: 0D	
F C	Relay 1 Dim 01.1			Occ-on/off	Vacancy-off	Occ-on/off On-50%		S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off	PB:1 On/Off Ramp Up/Dn				
MSB / LSB	Relay 2 Dim 01.2			Occ-on/off	Vacancy-off	Occ-on/off On-50%		S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off		PB:1 On/Off Ramp Up/Dn			
	Relay 3 Dim 01.3		-10% scale	Occ-on/off	Vacancy-off	Occ-on/off 50%/PC1		S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off			PB:1 On/Off Ramp Up/Dn		
	Relay 4 Dim 01.4	Full Scale		Occ-on/off	Vacancy-off	Occ-on/off On-50%		S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:4-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off				PB:1 On/Off Ramp Up/Dn	
								PB:6-Off 0%	PB:5 Off R1-4	S:6 Dim to 0% Off					

The 5-Scene switches at address 04 and 14 allow set recall can press-n-hold capture with Ramp-up/Down dimming.

MZD4 switches at 06 and 16 allow individual on/off and selectable outputs to dim, Individual MZD1 switches for local control (0A,0B,0C,0D)

08 is a "Non-Capture" Scene recall or AV system interface using the LSSIICM. TSS2 3.4", 4.3 or 7" Touch Screen w/4 VDI slide dimmers (LS: 18,19,1A,1B,1C,1D)

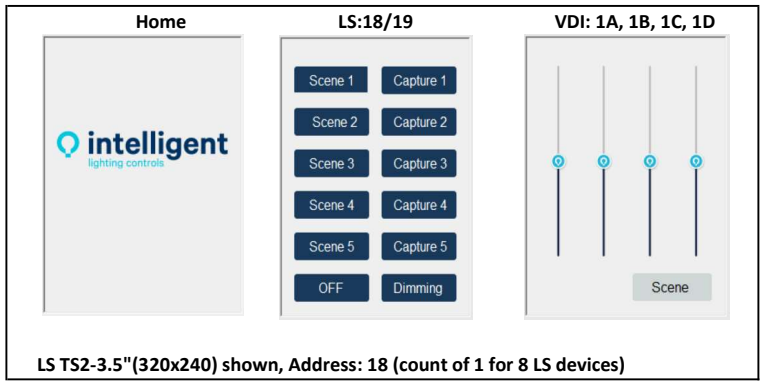
"	Output:							LightSync Input Devices		Optional 3.5" Touch Screen Station					
Address:	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LSG3-5 Scene	LSG3-MZD4	TSS2-5 Scene	PC-2s	PC-2s	PC-2s	PC-2s	
	Dimmer #	LS:0E	LS:0F	LS:10	LS:11	LS:12	LS:13	LS: 14/15	LS: 16/17	LS: 18/19	LS:1A	LS:1B	LS:1C	LS:1D	
F C	Relay 1 Dim 01.1							S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off 19 Capture	VDI				
MSB / LSB	Relay 2 Dim 01.2							S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off 19 Capture		VDI			
	Relay 3 Dim 01.3							S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off 19 Capture			VDI		
	Relay 4 Dim 01.4							S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:4-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off 19 Capture				VDI	
								PB:6-Off 0%	PB:5 Off R1-4	PB:6-Off 0%					

(No Raise/Lower in TS2 - See "VDI" Variable Dimmer Inputs 1A, 1B, 1C, 1D)

LSSI-232 device (08) AV RS-232 activation of the scenes

Pre-loaded scene levels are:

Scene 1 (10)	100%
Scene 2 (07)	70%
Scene 3 (05)	50%
Scene 4 (03)	30%
Scene 5 (01)	10%
Off-Scene 6 (41)	0% Off



LS TS2-3.5"(320x240) shown, Address: 18 (count of 1 for 8 LS devices)

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Double Conference Room - EVO Pre-Program: FD

Double Conference room 4-Zone w/1-Daylight Zone, 5-Scene, MZD4, AV, TSS-2 Note: EVO-4X/8X for 2nd Conference room 4-Zones

Photo sensor inputs for 1 or 2 daylight zones, Motion sensor inputs for Occupancy or Vacancy and Occupancy On at 50% using A LSOSI (LS:13) remote module

Remote digital CAT-5 LightSync G3 5-Scene + Off switches, MZD4 switches, MZD1 for display wall lighting, AV Interface (LSSI-232) with Scene operation

Node	Output:	EVO Photocells		EVO-OSC Inputs Un-used	Virtual Inputs			LightSync Input Devices		A/V Interface	Virtual VDI inputs				
Address:	Relay #	PC-1	PC-2	See: LS:13	*Echo 5-S TS2*	*Echo 5-Scene*	*Echo 5-Scene*	LSG3-5 Scene	LSG3-MZD4	LSSI-232 (AV)	*Echo:PC-2s*	*Echo:PC-2s*	*Echo:PC-2s*	*Echo:PC-2s*	
F D	Dimmer #	LS: 01	LS: 02	LS:03	*LS: 20/21*	*LS: 2E/2F*	*LS: 3E/3F*	LS: 04/05	LS:06/07	LS: 08/09*	*LS:0A*	*LS:0B*	*LS:0C*	*LS: 0D*	
MSB / LSB	Relay 1 Dim 01.1				*Echo 38/39*	*Echo 24/25*	*Echo 34/35*	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off	*Echo 3A VDI*				
	Relay 2 Dim 01.2				*Echo 38/39*	*Echo 24/25*	*Echo 34/35*	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off		*Echo 3B VDI*			
	Relay 3 Dim 01.3		-10% scale		*Echo 38/39*	*Echo 24/25*	*Echo 34/35*	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off			*Echo 3C VDI*		
	Relay 4 Dim 01.4	Full Scale			*Echo 38/39*	*Echo 24/25*	*Echo 34/35*	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:4-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off				*Echo 3D VDI*	
					Disabled when 13.8 is Closed			PB:6-Off 0%	PB:5 Off R1-4	S:6 Dim to 0% Off	*Disabled when on-input 13.8 is Closed*				

The 5-Scene station at address 04 and 14 allow set recall can press-n-hold capture with Ramp-up/Down dimming.

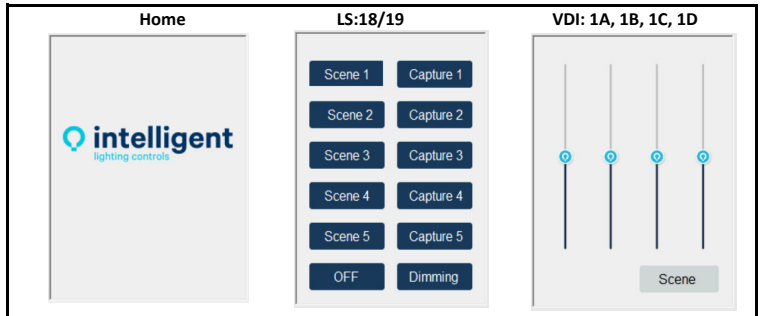
MZD4 switches at 06 and 16 allow individual on/off and selectable outputs to dim, Individual MZD1 switches for local control (0A,0B,0C,0D)

08 is a "Non-Capture" Scene recall or AV system interface using the LSSI-232. TS2 3.4", 4.3 or 7" Touch Screen w/4 VDI slide dimmers (LS: 18,19,1A,1B,1C,1D)

"	Output:	LSOSI-R Conditional Occupancy Sensor 8 Input Remot						LightSync Input Devices		Optional 3.5" Touch Screen Station					
Address:	Relay #	IN-1	IN-2	IN-3	IN-4	LS-	LS-	LSG3-5 Scene	LSG3-MZD4	TSS2-5 Scene	PC-2s	PC-2s	PC-2s	PC-2s	
F D	Dimmer #	LS: 13.1	LS: 13.2	LS: 13.3	LS: 13.4	LS:13.5	LS:13.6	LS: 14/15	LS: 16/17	LS: 18/19	LS:1A	LS:1B	LS:1C	LS:1D	
MSB / LSB	Relay 1 Dim 01.1	Occ-on/off	Vacancy-off	Occ-on/off On-50%	*Occ-on/off*	*Vacancy-off*	*Occ-on/off On-50%*	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off 19 Capture	VDI				
	Relay 2 Dim 01.2	Occ-on/off	Vacancy-off	Occ-on/off On-50%	*Occ-on/off*	*Vacancy-off*	*Occ-on/off On-50%*	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off 19 Capture		VDI			
	Relay 3 Dim 01.3	Occ-on/off	Vacancy-off	Occ-on/off 50%/PC1	*Occ-on/off*	*Vacancy-off*	*Occ-on/off 50%/PC1*	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off 19 Capture			VDI		
	Relay 4 Dim 01.4	Occ-on/off	Vacancy-off	Occ-on/off On-50%	*Occ-on/off*	*Vacancy-off*	*Occ-on/off On-50%*	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:4-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off 19 Capture				VDI	
		Combined OSC operation is Disabled when on-input 13.8 is Closed						PB:6-Off 0%	PB:5 Off R1-4	PB:6-Off 0%					

When Combined (input 13.8 open) inputs work together (1-4, 2-5, 3-6)

(No Raise/Lower in TS2 - See "VDI" Variable Dimmer Inputs 1A, 1B, 1C, 1D)



LS TS2-3.5"(320x240) shown, Address: 18 (count of 1 for 8 LS devices)

This Panel is a Duplicate of FC with additional programming
for a EVO-4X operating a 2nd matching conference room.
See EVO FD-4X for room 2 operation and addresses
LSSI-232 device will be set for 2 addresses (08/09) allowing
a single interface device with separate control for both rooms.
Scene Switches and TS2 Touch screens become combined when
OSC input #8 is open, and disabled when closed
IR Beam Sensor with N.C. contact used as dividing wall sensor
MZD Switches only control the individual room and do not combine

Pre-loaded scene levels are:

Scene 1 (10)	100%
Scene 2 (07)	70%
Scene 3 (05)	50%
Scene 4 (03)	30%
Scene 5 (01)	10%
Off-Scene 6 (41)	0% Off

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EVO Pre-Program: FD (EVO-4X Room 2)

This Sheet is an Extension of FD and applies to *Room 2* with a EVO-4X (02) to support an additional 4 R20D relay zones (R5, R6, R7, R8).
Photo sensor inputs for 1 or 2 daylight zones, Motion sensor inputs for Occupancy or Vacancy and Occupancy On at 50% using A LSOSI (LS:13) remote module
Remote digital CAT-5 LightSync G3 5-Scene + Off station, MZD3 station, MZD1 for display wall lighting, AV Interface (LSSI-232) with Scene Operation

EVO-4X	Output:	Remote Photocells module			Virtual Inputs			LightSync Input Devices		A/V Interface	Virtual VDI inputs				
Address:	Relay #	PC-3	PC-4		*Echo 5-S TS2*	*Echo 5-Scene*	*Echo 5-Scene*	LSG3-5 Scene	LSG3-MZD4	LSSI-232	*Echo:PC-2s*	*Echo:PC-2s*	*Echo:PC-2s*	*Echo:PC-2s*	
	Dimmer #	LS:11	LS: 12		*LS: 30/31*	*LS: 0E/OF*	*LS: 1E/1F*	LS: 24/25	LS: 26/27	LS: *09* *	*LS:2A*	*LS:2B*	*LS: 2C*	*LS: 2D*	
02	Relay 5 Dim 02.1				*Echo 18/19*	*Echo 04/05*	*Echo 14/15*	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off	*Echo 1A VDI*				
MSB / LSB	Relay 6 Dim 02.2				*Echo 18/19*	*Echo 04/05*	*Echo 14/15*	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off		*Echo 1B VDI*			
	Relay 7 Dim 02.3		-10% scale		*Echo 18/19*	*Echo 04/05*	*Echo 14/15*	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off			*Echo 1C VDI*		
	Relay 8 Dim 02.4	Full Scale			*Echo 18/19*	*Echo 04/05*	*Echo 14/15*	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:4-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off				*Echo 1D VDI*	
					Disabled when 13.8 is Closed			PB:6-Off 0%	PB:5 Off R1-4	S:6 Dim to 0% Off	*Disabled when on-input 13.8 is Closed*				

The 5-Scene station at address 04 and 14 allow set recall can press-n-hold capture with Ramp-up/Down dimming.
MZD4 stations at 06 and 16 allow individual on/off and selectable outputs to dim, Individual MZD1 switch's for local control (LS:0A, 0B, 0C, 0D)
08 is a "Non-Capture" Scene recall or AV system interface using the LSSI-232, (LS: 18,19,1A,1B,1C,1D) is configured for a TS2 3.4", 4.3 or 7" Touch Screen w/4 slide dimmers.

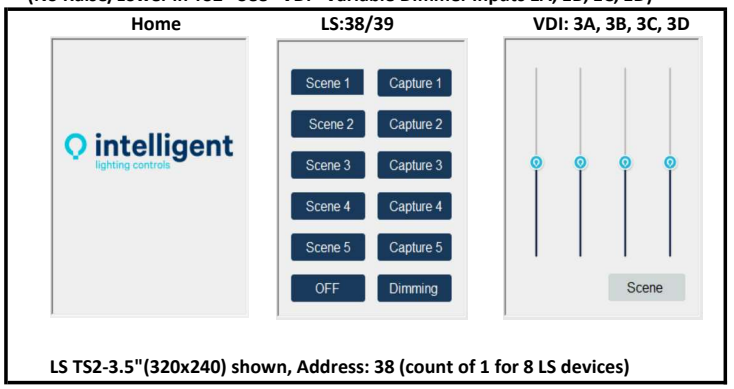
EVO-4X	Output:	LSOSI Conditional Occupancy Sensor 8 Input						LightSync Input Devices		Optional 3.5" Touch Screen Station				
Address:	Relay #	IN-1	IN-2	IN-3	IN-4	LS-	LS-	LSG3-5 Scene	LSG3-MZD4	TS2-5 Scene	PC-2s	PC-2s	PC-2s	PC-2s
	Dimmer #	LS: 13.1	LS: 13.2	LS: 13.3	LS: 13.4	LS:13.5	LS:13.6	LS: 34/35	LS: 36/37	LS: 38/39	LS:3A	LS:3B	LS:3C	LS:3D
02	Relay 5 Dim 02.1	*Occ-on/off*	*Vacancy-off*	*Occ-on/off On-50%*	Occ-on/off	Vacancy-off	Occ-on/off On-50%	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off 19 Capture	VDI			
MSB / LSB	Relay 6 Dim 02.2	*Occ-on/off*	*Vacancy-off*	*Occ-on/off On-50%*	Occ-on/off	Vacancy-off	Occ-on/off On-50%	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off 19 Capture		VDI		
	Relay 7 Dim 02.3	*Occ-on/off*	*Vacancy-off*	*Occ-on/off 50%/PC1*	Occ-on/off	Vacancy-off	Occ-on/off 50%/PC1	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off 19 Capture			VDI	
	Relay 8 Dim 02.4	*Occ-on/off*	*Vacancy-off*	*Occ-on/off On-50%*	Occ-on/off	Vacancy-off	Occ-on/off On-50%	S:1,2,3,4,5,6=Off Ramp Up/Dn	PB:4-on/off Ramp Up/Dn	S:1,2,3,4,5,6-Off 19 Capture				VDI
		Combined OSC operation is Disabled when on-input 13.8 is Closed						PB:6-Off 0%	PB:5 Off R1-4	PB:6-Off 0%				

This Panel is a Duplicate of FC with additional programming
for a EVO-4X operating as a 2nd matching conference room.
See EVO FD for room 1 operation and addresses
LSSI-232 device will be set for 2 addresses (08/09) allowing
a single interface device with separate control for both rooms.
Scene Switches and TS2 Touch screens become combined when
LSOSI input #8 is open, and disabled when closed
IR Beam Sensor with N.C. contact used as dividing wall sensor
MZD switches only control the individual room and do not combine

Pre-loaded scene levels are:

Scene 1 (20)	100%
Scene 2 (17)	70%
Scene 3 (15)	50%
Scene 4 (13)	30%
Scene 5 (11)	10%
Off-Scene 6 (42)	0% Off

(No Raise/Lower in TS2 - See "VDI" Variable Dimmer Inputs 1A, 1B, 1C, 1D)



LS TS2-3.5"(320x240) shown, Address: 38 (count of 1 for 8 LS devices)

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Open Office - EVO Pre-Program: FE

Open Office, 3 or 4-Zone Open/Close Timer sweep, 2-independent Daylight Zones

Photo sensor inputs for 1 or 2 daylight zones, Timer 1 Open - 6:00am ON / Timer 2 Close - 10:00pm - Off sweep repeated every 2 hours w/Blink Alert

Remote digital CAT-5 LightSync G3 MZD4 or MZD3, standard button switches for local room control

Node Address:	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync Input Devices							
	Relay #	PC-1	PC-2	IN-1	IN-2	IN-3	IN-4	LS-G3 MZD4	LS-G3 MZD3	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 1ZND	LS-G3 1ZND
	Dimmer #	LS: 01	LS: 02	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04/05	LS: 06/07	LS: 08	LS: 09	LS: 0A	LS: 0B	LS: 0C	LS: 0D
F E	Relay 1 Dim 01.1			Occ-on/off	Vacancy-off	Occ-On/Off On-50%	On/Off Togg	PB:1-on/off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	PB:1 On/Off Ramp Up/Dn				On/Off Togg.	
MSB / LSB	Relay 2 Dim 01.2			Occ-on/off	Vacancy-off	Occ-On/Off On-50%	On/Off Togg	PB:2-on/off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn		PB:1 On/Off Ramp Up/Dn			On/Off Togg.	
	Relay 3 Dim 01.3		Full Scale	Occ-on/off	Vacancy-off	Occ-On/Off On-50%/PC2	On/Off Togg	PB:3-on/off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn			PB:1 On/Off Ramp Up/Dn		On/Off Togg.	
	Relay 4 Dim 01.4	Full Scale		Occ-on/off	Vacancy-off	Occ-On/Off On-50%/PC1	On/Off Togg	PB:4-on/off Ramp Up/Dn					PB:1-on/off Ramp Up/Dn	On/Off Togg.	On/Off Togg.
								PB:5-Off R1-4	PB:4-Off R1-4	MZD1 & 1ZND operation can be used for G3 or G2 switches					

Additional G3 switch addresses for 3-Way operation, LSOSI for additional Occupancy power (800mA) and 4-Zone, 3-Zone/1-Zone control

Open Office Code Compliant Room Type - CA, Title-24: CD 0012 Ashrae 90.1: CD 0212 IECC: CD 0411, 0412

Node Address:	Output:	Remote LSOSI - 24V Motion Sensor inputs 800mA tota 3-Zone R1,2,3						1-Zone R4		Remote LightSync Input Devices					
	Relay #	IN-1	IN-2	IN-3	IN-4	IN-5	IN-6	IN-6	IN-8	LS-G3 MZD4	LS-G3 MZD3	LS-G3 MZD1	LS-G3 1ZND	LS-G3 1ZND	
	Dimmer #	LS: 13.1	LS: 13.2	LS: 13.3	LS: 13.4	LS: 13.5	LS: 13.6	LS: 13.7	LS: 13.8	LS: 14/15	LS: 16/17	LS: 1B	LS: 1C	LS: 1D	
F E	Relay 1 Dim 01.1	Occ-on/off	Vacancy-off	Occ-On/Off On-50%	On/Off Togg	Occ-on/off	Vacancy-off			PB:1-on/off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn		On/Off Togg.		
MSB / LSB	Relay 2 Dim 01.2	Occ-on/off	Vacancy-off	Occ-On/Off On-50%	On/Off Togg	Occ-on/off	Vacancy-off			PB:2-on/off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn		On/Off Togg.		
	Relay 3 Dim 01.3	Occ-on/off	Vacancy-off	Occ-On/Off On-50%/PC2	On/Off Togg	Occ-on/off	Vacancy-off			PB:3-on/off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn		On/Off Togg.		
	Relay 4 Dim 01.4	Occ-on/off	Vacancy-off	Occ-On/Off On-50%/PC1	On/Off Togg			Occ-on/off	Vacancy-off	PB:4-on/off Ramp Up/Dn		PB:1-on/off Ramp Up/Dn	On/Off Togg.	On/Off Togg.	
										PB:5-Off R1-4	PB:4-Off R1-4				

Open/Closer - timer setting		
Days	Open	Close
Sunday	6:00 AM	10:00 PM
Monday	6:00 AM	10:00 PM
Thursday	6:00 AM	10:00 PM
Wednesday	6:00 AM	10:00 PM
Thursday	6:00 AM	10:00 PM
Friday	6:00 AM	10:00 PM
Saturday	6:00 AM	10:00 PM

This EVO Panel *must have* an Internal Clock (EVO-TC) for timer operation or be networked
If No clock is present the panel will remain at 12:00 Midnight in the Closed "B" operation

Timer Operation:	
Timer 1	Timer 2
Open 6am	Close 10pm
R1 On	R1 Off 2hr. Sweep
R2 On	R2 Off 2hr. Sweep
R3 On	R3 Off 2hr. Sweep
R4 On	R4 Off 2hr. Sweep

T1 - Open: Mo / Tu / We / Th / Fr
T2 - Close: Su / Mo / Tu / We / Th / Fr/ Sa
Blink Alert at Timer Off cycle R1-4

Open Office - EVO Pre-Program Control: FF

Open Office, 3 or 4-Zone Motion-On (Open) On/Off (Close time), 2-independent Daylight.

Photo sensor inputs for 1 or 2 daylight zones, Timer 1 Open 6:00am ON / Timer 2 Close - 10:00pm - Off sweep repeated every 2 hours w/Blink Alert

Remote digital CAT-5 LightSync G3 MZD4,or MZD3, standard button switches for local room control, Occupancy Sensor Inputs change from "On Only" during the day to ON/Off at night

Node Address:	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync Input Devices							
	Relay #	PC-1	PC-2	IN-1	IN-2	IN-3	IN-4	LS-G3 MZD4	LS-G3 MZD3	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 MZD1	LS-G3 1ZND	LS-G3 1ZND
	Dimmer #	LS: 01	LS: 02	LS: 03.1 (A/B)	LS: 03.1 (A&B)	LS: 03.2 (A/B)	LS: 03.4 (A&B)	LS: 04/05	LS: 06/07	LS: 08	LS: 09	LS: 0A	LS: 0B	LS: 0C	LS: 0D
F F	Relay 1 Dim 01.1			A=On/B=On/Off	Vacancy-off	A=On/B=On/Off On-50%	On/Off Togg.	PB:1-on/off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	PB:1 On/Off Ramp Up/Dn				On/Off Togg.	
MSB / LSB	Relay 2 Dim 01.2			A=On/B=On/Off	Vacancy-off	A=On/B=On/Off On-50%	On/Off Togg.	PB:2-on/off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn		PB:1 On/Off Ramp Up/Dn			On/Off Togg.	
	Relay 3 Dim 01.3		Full Scale	A=On/B=On/Off	Vacancy-off	A=On/B=On/Off On-50% PC2	On/Off Togg.	PB:3-on/off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn			PB:1 On/Off Ramp Up/Dn		On/Off Togg.	
	Relay 4 Dim 01.4	Full Scale		A=On/B=On/Off	Vacancy-off	A=On/B=On/Off On-50% PC1	On/Off Togg.	PB:4-on/off Ramp Up/Dn					PB:1-on/off Ramp Up/Dn	On/Off Togg.	On/Off Togg.

A = Open Hours / B = Closed Hours Operation

PB:5-Off R1-4 | PB:4-Off R1-4

MZD1 & 1ZND operation can be used for G3 or G2 switches

Additional G3 switch addresses for 3-Way operation, LSOSI for additional Occupancy power (800mA) and 4-Zone, 3-Zone/1-Zone control

Open Office Code Compliant Room Type - CA, Title-24: CD 0012 Ashrae 90.1: CD 0212 IECC: CD 0411, 0412

Node Address:	Output:	Remote LSOSI - 24V Motion Sensor inputs 800mA total				3-Zone R 1, 2, 3		1-Zone R 4		Remote LightSync Input Devices					
	Relay #	IN-1	IN-2	IN-3	IN-4	IN-5	IN-6	IN-6	IN-8	LS-G3 MZD4	LS-G3 MZD3	LS-G3 MZD1	LS-G3 1ZND	LS-G3 1ZND	
	Dimmer #	LS: 13.1 (A/B)	LS: 13.1 (A&B)	LS: 13.2 (A/B)	LS: 13.4 (A/B)	LS: 13.5 (A/B)	LS: 13.6 (A&B)	LS: 13.7(A/B)	LS: 13.8(A&B)	LS: 14/15	LS: 16/17	LS: 1B	LS: 1C	LS: 2D	
F F	Relay 1 Dim 01.1	On-A / Off-B	Vacancy-off	On-A / Off-B On-50%	On-A/Off-B	On-A / Off-B On-50%	Vacancy-off			PB:1-on/off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn		On/Off Togg.		
MSB / LSB	Relay 2 Dim 01.2	On-A / Off-B	Vacancy-off	On-A / Off-B On-50%	On-A/Off-B	On-A / Off-B On-50%	Vacancy-off			PB:2-on/off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn		On/Off Togg.		
	Relay 3 Dim 01.3	On-A / Off-B	Vacancy-off	On-A / Off-B On-50% PC2	On-A/Off-B	On-A / Off-B On-50% PC2	Vacancy-off			PB:3-on/off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn		On/Off Togg.		
	Relay 4 Dim 01.4	On-A / Off-B	Vacancy-off	On-A / Off-B On-50% PC1	On-A/Off-B			On-A / Off-B On-50% PC1	Vacancy-off	PB:4-on/off Ramp Up/Dn		PB:1-on/off Ramp Up/Dn	On/Off Togg.	On/Off Togg.	

A = Open Hours / B = Closed Hours Operation

PB:5-Off R1-4 | PB:4-Off R1-4

Open/Closer - timer setting		
Days	Open	Close
Sunday	6:00 AM	10:00 PM
Monday	6:00 AM	10:00 PM
Thursday	6:00 AM	10:00 PM
Wednesday	6:00 AM	10:00 PM
Thursday	6:00 AM	10:00 PM
Friday	6:00 AM	10:00 PM
Saturday	6:00 AM	10:00 PM

This EVO Panel *must have* an Internal Clock (EVO-TC) for timer operation or be networked

If No clock is present the panel will remain at 12:00 Midnight in the Closed "B" operation

Timer Operation:	
Timer 1	Timer 2
Open 6am	Close 10pm
R1 On	R1 Off 2hr. Sweep
R2 On	R2 Off 2hr. Sweep
R3 On	R3 Off 2hr. Sweep
R4 On	R4 Off 2hr. Sweep

T1 - Open: Mo / Tu / We / Th / Fr

T2 - Close: Su / Mo / Tu / We / Th / Fr/ Sa

Blink Alert at Timer Off cycle R1-4

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Default Program - EVO Programmable Mode

EVO Panels are shipped with a Default Program in the main memory, this program is active when the *Mode Select Jumper* is removed
Occupancy inputs are a Timed-On type giving a total 30 Minute duration (10min sensor + 20min EVO Timed-On)
Set a G3 switch for address 04 to 20 for basic On/Off test control from button 1, Device address 40 is a MZD-1 switch

Node Address:	Output:	Photo	EVO Inputs - 24V Motion Sensor (Timed On 20 Min)				Remote LightSync G3 Input Devices (20) Button 1 will Toggle the All 12 Loads ON/Off									
	Relay #	PS-1/2	IN-1	IN-2	IN-3	IN-4	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3
	Dimmer #	LS: 01/02	LS: 03.1	LS: 03.2	LS: 03.3	LS: 03.4	LS: 04	LS: 05	LS: 06	LS: 07	LS: 08	LS: 09	LS: 0A	LS: 0B	LS: 0C	LS: 0D
ME	Relay 1	Unused	Timed-ON	Timed-ON	Timed-ON	Timed-ON	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle
	Relay 2		"	"	"	"	"	"	"	"	"	"	"	"	"	"
MSB / LSB	Relay 3		"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Relay 4		"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Relay 5		"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Relay 6		"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Relay 7		"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Relay 8		"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Relay 9		"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Relay 10		"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Relay 11		"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Relay 12		"	"	"	"	"	"	"	"	"	"	"	"	"	"

Dimmer 01 to 03. 1-4	Start-Up = 100%, Occupancy closure 1,2,3,4 = 100%, (LS40, MZD1 type Button 2&3 = Ramp-UP/Ramp-Down)
Dimmer 01 to 03. 1-4	Power Loss = 100%

Node Address:	Output:	Remote LightSync G3 Input Devices (20) Button 1 will Toggle the All 12 Loads ON/Off														
	Relay #	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3	LS-G3		LSG3-MZD1
	Dimmer #	LS: 0E	LS: 0F	LS: 10	LS: 11	LS: 12	LS: 13	LS: 14	LS: 15	LS: 16	LS: 17	LS: 18	LS: 19	LS: 20		LS: 40
ME	Relay 1	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle	PB Toggle		PB Toggle
	Relay 2	"	"	"	"	"	"	"	"	"	"	"	"	"		"
MSB / LSB	Relay 3	"	"	"	"	"	"	"	"	"	"	"	"	"		"
	Relay 4	"	"	"	"	"	"	"	"	"	"	"	"	"		"
	Relay 5	"	"	"	"	"	"	"	"	"	"	"	"	"		"
	Relay 6	"	"	"	"	"	"	"	"	"	"	"	"	"		"
	Relay 7	"	"	"	"	"	"	"	"	"	"	"	"	"		"
	Relay 8	"	"	"	"	"	"	"	"	"	"	"	"	"		"
	Relay 9	"	"	"	"	"	"	"	"	"	"	"	"	"		"
	Relay 10	"	"	"	"	"	"	"	"	"	"	"	"	"		"
	Relay 11	"	"	"	"	"	"	"	"	"	"	"	"	"		"
	Relay 12	"	"	"	"	"	"	"	"	"	"	"	"	"		"
																Dimmers Raise/Lower

When the panel is in Programmable Mode by removing the Mode Select Jumper the Default program will be active (Factory configured for field testing)
20 LS Addresses (04 to 20 as show above) are configured to turn ON/Off the first 12 R20D relays connected to the EVO. These switches will not effect Dimming.
Dimming will be set for 100% at panel power-up or if the panel loses Power, No other dimming control is provided from these switches.
The 4 Occupancy sensor inputs will also control all 12 relays On/Off and are configured as a Timed-On for 20 minutes, starting when the sensor Opens its return control signal
If an sensor input closes the relays will go On, when a sensor input opens (after the sensor internal 10-min. time delay) the EVO will start a internal 20-minute Timed-On cycle for the relays
Each sensor input closure will reset the relay-ON action, and reset the Timed-On as each input opens. This Sensor time delay plus the EVO Timed-On will result in a 30 minute overall On duration.
The Default program is using the ME address reference that will adjust control inputs and status to any panel network address set in the field ("ME" being the reference to this panels current address)

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**** If Both Raise/Lower buttons are held on the switch, it will change its internal address temporarily to be address LS:40**
This device will be a MZD-1 and is a single ON/Off button (1-6) and Raise/lower dimming control of all 12 dimmers
The switch will default back to original address after a unactive period