

EVO Lighting Application Control Mapping Matrix F0

EVO Lighting Application F0 is used for a EVO panel supporting 1 room 3 or 4-Zone (Cafeteria, Library, Lobby or Public space) with 3-4 R20D relay zones. Photo sensor inputs for 1 or 2 daylight zones, motion sensor inputs for Occupancy, Vacancy or Occupancy On at 50% (Remote OSC8I option for independent zone control). Remote digital CAT-5 LightSync 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	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 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.	
	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							Off=G:1(R1,2,3,4)

Additional device addresses for a LSOSI with 800mA power and individual zone control, additional Scene switch, and 1-button 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	Output:	LSOSI (800mA power - 24V Motion sensor)								Additional G3 Switches for 3-Way operation						
Address:	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.
	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%						Off=G:1(R1,2,3,4)

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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EVO Lighting Application Control Mapping Matrix F1

EVO Lighting Application F1 is used for a EVO panel supporting 1 room (Open Office) with 4 to 3 R20D relay zones. Photo sensor inputs for 2 daylight zones with individual PC's, motion sensor inputs for Occupancy, Vacancy control or Occupancy On at 50%, On-50% Off toggle SPST or Remote digital CAT-5 LightSync 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			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					
	Dim 01.1																
	MSB / LSB																
	Relay 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				
Dim 01.2																	
Relay 3			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			
Dim 01.3			Full scale														
Relay 4			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		
Dim 01.4		Full scale															
								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							PB:1-on/off Ramp Up/Dn	PB:1-on/off Ramp Up/Dn	On/Off Togg.	PB:1-on/off					
	Dim 01.1															
	MSB / LSB															
	Relay 2							PB:2-on/off Ramp Up/Dn	PB:2-on/off Ramp Up/Dn	On/Off Togg.	PB:2-on/off					
Dim 01.2																
Relay 3							PB:3-on/off Ramp Up/Dn	PB:3-on/off Ramp Up/Dn	On/Off Togg.	PB:1-on/off						
Dim 01.3																
Relay 4							PB:4-on/off Ramp Up/Dn		On/Off Togg.	PB:2-on/off						
Dim 01.4																
								PB:5-Off R1-4	PB:4-Off R1-3			PB:3-Off R1-4				

Node	Output:	Additional Inputs				Additional Switches									
Address:	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-
	Dimmer #	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:
F 1	Relay 1														
	Dim 01.1														
	MSB / LSB														
	Relay 2														
Dim 01.2															
Relay 3															
Dim 01.3															
Relay 4															
Dim 01.4															

EVO Lighting Application Control Mapping Matrix F2

EVO Lighting Application F2 is used for a EVO panel supporting 1 room (Open Office) with 4 to 3 R20D relay zones.
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 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			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							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				

Node	Output:	Additional Inputs													
Address:	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-
	Dimmer #	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:
F 2	Relay 1 Dim 01.1														
	MSB / LSB														
	Relay 3 Dim 01.3														
	Relay 4 Dim 01.4														

EVO Lighting Application Control Mapping Matrix F3

EVO Lighting Application F3 is used for a EVO panel supporting 2 rooms with 2 or 1-R20D relays zones per room. 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 MZD or standard button switches for local room control

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 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					
	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	Output:	Additional Inputs						Additional G3 Switches for 3-Way operation								
Address:	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				
	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		

Node	Output:	Additional Inputs													
Address:	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-
	Dimmer #	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:
F 3	Relay 1 Dim 01.1														
	Relay 2 Dim 01.2														
	Relay 3 Dim 01.3														
	Relay 4 Dim 01.4														



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EVO Lighting Application Control Mapping Matrix F4

EVO Lighting Application F3 is used for a EVO panel supporting 2 rooms with 2 or 1- R20D relays zones per room. 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 MZD or standard button switches for local room control

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 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							PB:1-on/off Ramp Up/Dn				PB:1-on/off Ramp Up/Dn	
Relay 4 Dim 01.4		Full scale										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	Output:	Additional Inputs				Additional G3 Switches for 3-Way operation										
Address:	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		

Node	Output:	Additional Inputs													
Address:	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-
	Dimmer #	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:
F 4	Relay 1 Dim 01.1														
	MSB / LSB														
	Relay 2 Dim 01.2														
	Relay 3 Dim 01.3														
Relay 4 Dim 01.4															

EVO Lighting Application Control Mapping Matrix F5

EVO Lighting Application F5 is used for a EVO panel supporting 2 rooms, one with 3 or 2-R20D relay zones and one with 1-R20D relay 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 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			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							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					

Node	Output:	Additional Inputs													
Address:	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-
	Dimmer #	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:
F 5	Relay 1 Dim 01.1														
	MSB / LSB														
	Relay 2 Dim 01.2														
	Relay 3 Dim 01.3														
Relay 4 Dim 01.4															

EVO Lighting Application Control Mapping Matrix F6

EVO Lighting Application F5 is used for a EVO panel supporting 2 rooms, one with 3-R20D relay zones and one with 1-R20D relay 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 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 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	Output:	Additional Inputs				Additional G3 Switches for 3-Way operation									
Address:	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	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 6	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					

Node	Output:	Additional Inputs												
Address:	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-	LS-
	Dimmer #	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:	LS:
F 6	Relay 1 Dim 01.1													
	MSB / LSB													
	Relay 2 Dim 01.2													
	Relay 3 Dim 01.3													
Relay 4 Dim 01.4														

EVO Lighting Application Control Mapping Matrix F7

EVO Lighting Application F7 is used for a EVO panel supporting 4 rooms with 1 R2OD relay zone each. 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	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync Input Devices				G3 2-Scene switch, Dim to off and Raise/Lower			
Address:	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			Occ-on/off				On-50%/Off				S:1,2,3-Off			
	Dim 01.1	Full scale		On-50%/PC1				Ramp Up/Dn				Ramp Up/Dn			
	MSB / LSB	Relay 2			Occ-on/off				On-50%/Off				S:1,2,3-Off		
	Dim 01.2		Full scale		On-50%/PC2				Ramp Up/Dn			Ramp Up/Dn			
	Relay 3				Occ-on/off					On-50%/Off			S:1,2,3-Off		
	Dim 01.3				On-50%/PC3					Ramp Up/Dn			Ramp Up/Dn		
	Relay 4						Occ-on/off				On-50%/Off				S:1,2,3-Off
	Dim 01.4						On-50%/PC4				Ramp Up/Dn				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	Output:	Remote Photo Sensors Inputs		Momentary 3-Wire Toggle Switch inputs				Additional G3 Switches for 3-Way operation				G3 2-Scene switch, Dim to off and Raise/Lower			
Address:	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			Mom On/Off				On-50%/Off				S:1,2,3-Off			
	Dim 01.1			On-50%				Ramp Up/Dn				Ramp Up/Dn			
	MSB / LSB	Relay 2			Mom On/Off				On-50%/Off				S:1,2,3-Off		
	Dim 01.2				On-50%				Ramp Up/Dn			Ramp Up/Dn			
	Relay 3				Mom On/Off					On-50%/Off			S:1,2,3-Off		
	Dim 01.3	Full scale			On-50%					Ramp Up/Dn			Ramp Up/Dn		
	Relay 4					Mom On/Off					On-50%/Off				S:1,2,3-Off
	Dim 01.4		Full Scale			On-50%					Ramp Up/Dn				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 supported by G3 only

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



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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

EVO Lighting Application Control Mapping Matrix F8

EVO Lighting Application F8 is used for a EVO panel supporting 4 room with 1 R20D relay zone each.
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	Output:	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync Input Devices				G3 2-Scene switch, Dim to off and Raise/Lower			
Address:	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 supported 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	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			
Address:	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 supported by G3 only

Node	Output:	Additional Inputs		Momentary 2-Wire Toggle Switch inputs											
Address:	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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Simplifying Lighting Controls from Installation to Use

EVO Lighting Application Control Mapping Matrix F9 (Corridor/Stairwell)

EVO Lighting Application F9 is used for a EVO panel supporting 1 Corridor or Stairwell with 1 or 2 (R1,2) R20D relay power circuits as 1-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)															
Node	Output:	Photosensor	EVO Inputs - 4-input, 24VDC Motion Sensor 200mA				Relay 1 & 2 Remote LightSync Input Devices (6 possible)								
Address:	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-	LS-
F 9	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:	LS:
	Relay 1 Dim 01.1		A = PB-On On 100/Off 50%	Disable	A = MNT-On On 100/Off 50%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%			
	M/SB / LSB R1 & 2		Disable	B=MNT-On/Off On 100%	B = MNT-On On 100/Off 50%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%			
	Relay 2 Dim 01.2	Full Scale	A = PB-On On 100/Off 50%	Disable	A = MNT-On On 100/Off 50%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%			
	"		Disable	B=MNT-On/Off On 100%	B = MNT-On On 100/Off 50%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON 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	Output:	Photosensor	LightSync: 13 = LSOSI - 8-input, 24V Motion Sensor 800mA				Relay 3 & 4 Remote LightSync Input Devices (6 possible)								
Address:	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-	LS-
F 9	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:	LS:
	Relay 3 Dim 01.3		A = PB-On On 100/Off 50%	Disable	A = MNT-On On 100/Off 50%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%			
	M/SB / LSB R3 & 4		Disable	B=MNT-On/Off On 100%	B = MNT-On On 100/Off 50%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%			
	Relay 4 Dim 01.4	Full Scale	A = PB-On On 100/Off 50%	Disable	A = MNT-On On 100/Off 50%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%	A = PB-On On 100%			
	"		Disable	B=MNT-On/Off On 100%	B = MNT-On On 100/Off 50%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%	B= Timed ON On 100%			
	"	"													

* 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 LSOSI at LS:13 and up to 6 LS Digital switches at LS:14-19

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 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)

EVO Lighting Application Control Mapping Matrix FA

**EVO Lighting Application FA is used for a EVO panel supporting 1 Classroom with 4-R20D relay zones. (a ,b, bc, c zones) - Daylighting at back of room in zone 4
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**

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:0A	LS: 0B	LS:0C	
FA	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			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 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:3-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%					
Address:	Dimmer #	Additional relays for second Daylight Zone controlled by area "a" and "c" switches and photocell												
02	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		
FA	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							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													
02	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 programmed 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.

EVO Lighting Application Control Mapping Matrix FB

EVO Lighting Application FB is used for a EVO panel supporting 1 Classroom with 4-R20D relay zones. (a ,b, bc, c zones) - Daylighting at back of room in zone 4
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"

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	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 "a"	LS: 09 "b"	LS: 0A "c"	LS: 0B	LS: 0C/0D/0E		
FB	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														
02	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:		
FB	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														
02	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.

EVO Lighting Application Control Mapping Matrix FC

EVO Lighting Application FC is used for a EVO panel supporting a Conference room with 4 R20D relay zones.

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

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	LSS-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
FC	Relay 1			Occ-on/off	Vacancy-off	Occ-on/off		S:1,2,3,4,5,6-Off	PB:1-on/off	S:1,2,3,4,5,6-Off	PB:1 On/Off			
	Dim 01.1					On-50%		Ramp Up/Dn	Ramp Up/Dn		Ramp Up/Dn			
	Relay 2			Occ-on/off	Vacancy-off	Occ-on/off		S:1,2,3,4,5,6-Off	PB:2-on/off	S:1,2,3,4,5,6-Off		PB:1 On/Off		
	Dim 01.2					On-50%		Ramp Up/Dn	Ramp Up/Dn		Ramp Up/Dn			
MSB / LSB	Relay 3			Occ-on/off	Vacancy-off	Occ-on/off		S:1,2,3,4,5,6-Off	PB:3-on/off	S:1,2,3,4,5,6-Off			PB:1 On/Off	
	Dim 01.3		-10% scale			50%/PC1		Ramp Up/Dn	Ramp Up/Dn		Ramp Up/Dn		Ramp Up/Dn	
	Relay 4			Occ-on/off	Vacancy-off	Occ-on/off		S:1,2,3,4,5,6-Off	PB:4-on/off	S:1,2,3,4,5,6-Off				PB:1 On/Off
	Dim 01.4	Full Scale				On-50%		Ramp Up/Dn	Ramp Up/Dn					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)

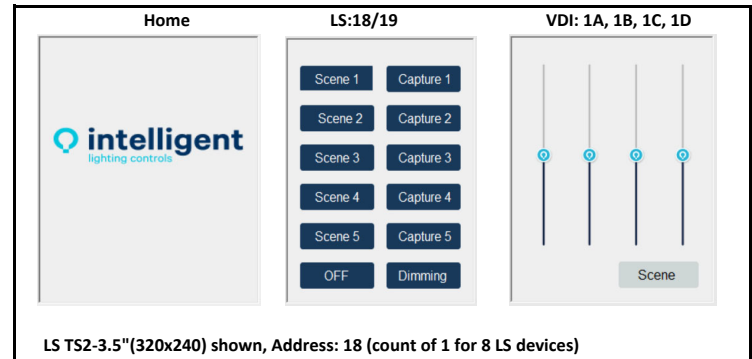
"	Output:							LightSync Input Devices		Optional 3.5" Touch Screen Station				
Address:	Relay #	LS-	LS-	LS-	LS-	LS-	LS-	LSG3-5 Scene	LSG3-MZD4	TSS2-5 Scene	PC-2s	PC-2s	PC-2s	PC-2s
	Dimmer #	LS:0E	LS:0F	LS:10	LS:11	LS:12	LS:13	LS: 14/15	LS: 16/17	LS: 18/19	LS:1A	LS:1B	LS:1C	LS:1D
FC	Relay 1							S:1,2,3,4,5,6-Off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



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Simplifying Lighting Controls from Installation to Use

EVO Lighting Application Control Mapping Matrix FD

EVO Lighting Application FD is used for a EVO panel with EVO-4X panel to supporting a Two Conference rooms with 8 R20D relay 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 4-Scene + Off switches, MZD3 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		
	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		
FD	Relay 1				Echo 38/39	Echo 24/25	Echo 34/35	S:1,2,3,4,5,6-Off	PB:1-on/off	S:1,2,3,4,5,6-Off	Echo 3A					
	Dim 01.1							Ramp Up/Dn	Ramp Up/Dn		VDI					
MSB / LSB	Relay 2				Echo 38/39	Echo 24/25	Echo 34/35	S:1,2,3,4,5,6-Off	PB:2-on/off	S:1,2,3,4,5,6-Off		Echo 3B				
	Dim 01.2							Ramp Up/Dn	Ramp Up/Dn			VDI				
	Relay 3				Echo 38/39	Echo 24/25	Echo 34/35	S:1,2,3,4,5,6-Off	PB:3-on/off	S:1,2,3,4,5,6-Off			Echo 3C			
	Dim 01.3		-10% scale					Ramp Up/Dn	Ramp Up/Dn			VDI				
	Relay 4				Echo 38/39	Echo 24/25	Echo 34/35	S:1,2,3,4,5,6-Off	PB:4-on/off	S:1,2,3,4,5,6-Off				Echo 3D		
	Dim 01.4	Full Scale						Ramp Up/Dn	Ramp Up/Dn					VDI		
<i>Disabled when 13.8 is Closed</i>												<i>Disabled when on-input 13.8 is Closed</i>				
										PB:6-Off 0%	PB:5 Off R1-4	S:6 Dim to 0% Off				

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		
	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		
FD	Relay 1	Occ-on/off	Vacancy-off	Occ-on/off	Occ-on/off	Occ-on/off	Occ-on/off	S:1,2,3,4,5,6-Off	PB:1-on/off	S:1,2,3,4,5,6-Off						
	Dim 01.1			On-50%	On-50%	On-50%	On-50%	Ramp Up/Dn	Ramp Up/Dn	19 Capture	VDI					
MSB / LSB	Relay 2	Occ-on/off	Vacancy-off	Occ-on/off	Occ-on/off	Occ-on/off	Occ-on/off	S:1,2,3,4,5,6-Off	PB:2-on/off	S:1,2,3,4,5,6-Off						
	Dim 01.2			On-50%	On-50%	On-50%	On-50%	Ramp Up/Dn	Ramp Up/Dn	19 Capture		VDI				
	Relay 3	Occ-on/off	Vacancy-off	Occ-on/off	Occ-on/off	Occ-on/off	Occ-on/off	S:1,2,3,4,5,6-Off	PB:3-on/off	S:1,2,3,4,5,6-Off						
	Dim 01.3			50%/PC1	50%/PC1	50%/PC1	50%/PC1	Ramp Up/Dn	Ramp Up/Dn	19 Capture			VDI			
	Relay 4	Occ-on/off	Vacancy-off	Occ-on/off	Occ-on/off	Occ-on/off	Occ-on/off	S:1,2,3,4,5,6-Off	PB:4-on/off	S:1,2,3,4,5,6-Off						
	Dim 01.4			On-50%	On-50%	On-50%	On-50%	Ramp Up/Dn	Ramp Up/Dn	19 Capture				VDI		
<i>Combined OSC operation is Disabled when on-input 13.8 is Closed</i>																
										PB:6-Off 0%	PB:5 Off R1-4	PB:6-Off 0%				

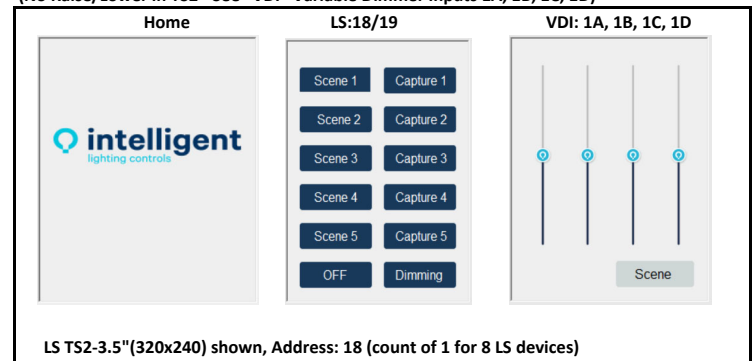
When Combined (input 13.8 open) inputs work together (1-4, 2-5, 3-6)

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

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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Simplifying Lighting Controls from Installation to Use

EVO Lighting Application Control Mapping Matrix 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 4-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/0F	LS: 1E/1F	LS: 24/25	LS: 26/27	LS: 09 *	LS:2A	LS:2B	LS: 2C	LS: 2D	
02	Relay 5				Echo 18/19	Echo 04/05	Echo 14/15	S:1,2,3,4,5,6-Off	PB:1-on/off	S:1,2,3,4,5,6-Off	Echo 1A				
	Dim 02.1							Ramp Up/Dn	Ramp Up/Dn		VDI				
MSB / LSB	Relay 6				Echo 18/19	Echo 04/05	Echo 14/15	S:1,2,3,4,5,6-Off	PB:2-on/off	S:1,2,3,4,5,6-Off		Echo 1B			
	Dim 02.2							Ramp Up/Dn	Ramp Up/Dn			VDI			
	Relay 7				Echo 18/19	Echo 04/05	Echo 14/15	S:1,2,3,4,5,6-Off	PB:3-on/off	S:1,2,3,4,5,6-Off			Echo 1C		
	Dim 02.3			-10% scale				Ramp Up/Dn	Ramp Up/Dn			VDI			
	Relay 8				Echo 18/19	Echo 04/05	Echo 14/15	S:1,2,3,4,5,6-Off	PB:4-on/off	S:1,2,3,4,5,6-Off				Echo 1D	
	Dim 02.4	Full Scale						Ramp Up/Dn	Ramp Up/Dn					VDI	
								Disabled when 13.8 is Closed				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 Inpu						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	Occ-on/off	Vacancy-off	Occ-on/off	Occ-on/off	Vacancy-off	Occ-on/off	S:1,2,3,4,5,6-Off	PB:1-on/off	S:1,2,3,4,5,6-Off					
	Dim 02.1			On-50%		On-50%		Ramp Up/Dn	Ramp Up/Dn	19 Capture	VDI				
MSB / LSB	Relay 6	Occ-on/off	Vacancy-off	Occ-on/off	Occ-on/off	Vacancy-off	Occ-on/off	S:1,2,3,4,5,6-Off	PB:2-on/off	S:1,2,3,4,5,6-Off					
	Dim 02.2			On-50%		On-50%		Ramp Up/Dn	Ramp Up/Dn	19 Capture		VDI			
	Relay 7	Occ-on/off	Vacancy-off	Occ-on/off	Occ-on/off	Vacancy-off	Occ-on/off	S:1,2,3,4,5,6-Off	PB:3-on/off	S:1,2,3,4,5,6-Off					
	Dim 02.3			50%/PC1		50%/PC1		Ramp Up/Dn	Ramp Up/Dn	19 Capture			VDI		
	Relay 8	Occ-on/off	Vacancy-off	Occ-on/off	Occ-on/off	Vacancy-off	Occ-on/off	S:1,2,3,4,5,6-Off	PB:4-on/off	S:1,2,3,4,5,6-Off					
	Dim 02.4			On-50%		On-50%		Ramp Up/Dn	Ramp Up/Dn	19 Capture				VDI	
								PB:6-Off 0%		PB:5 Off R1-4		PB:6-Off 0%			

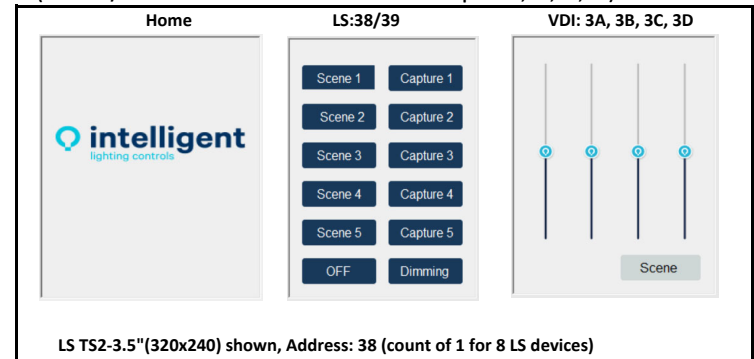
Combined OSC operation is Disabled when on-input 13.8 is Closed

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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Simplifying Lighting Controls from Installation to Use

EVO Lighting Application Control Mapping Matrix FE

EVO Lighting Application FE is used for a EVO panel supporting Open Office with 4 or 3 R20D relay 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 MZD or standard button switches for local room control

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 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
FE	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.	
	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	Output:	Remote LSOSI - 24V Motion Sensor inputs 800mA total						3-Zone R1,2,3		1-Zone R4		Remote LightSync Input Devices				
Address:	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		
FE	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.			
	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					

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

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

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

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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EVO Lighting Application Control Mapping Matrix FF

EVO Lighting Application FF is used for a EVO panel supporting Open Office with 4 or 3 R20D relay 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 MZD or standard button switches for local room control, Occupancy Sensor Inputs change from "On Only" during the day to ON/Off at ni

Node Address:	Output: Relay # Dimmer #	EVO Photocells		EVO Inputs - 24V Motion Sensor				Remote LightSync Input Devices							
		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
FF	Relay 1			A=On/B=On/Off	Vacancy-off	A=On/B=On/Off	On/Off Togg.	PB:1-on/off	PB:1-on/off	PB:1 On/Off					On/Off Togg.
	Dim 01.1			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
	Relay 2			A=On/B=On/Off	Vacancy-off	A=On/B=On/Off	On/Off Togg.	PB:2-on/off	PB:2-on/off		PB:1 On/Off				On/Off Togg.
	Dim 01.2			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
	Relay 3		Full Scale	A=On/B=On/Off	Vacancy-off	A=On/B=On/Off	On/Off Togg.	PB:3-on/off	PB:3-on/off			PB:1 On/Off			On/Off Togg.
Dim 01.3		Full Scale	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	
Relay 4			A=On/B=On/Off	Vacancy-off	A=On/B=On/Off	On/Off Togg.	PB:4-on/off	PB:4-on/off					PB:1-on/off	On/Off Togg.	
Dim 01.4	Full Scale		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	

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: Relay # Dimmer #	Remote LSOSI - 24V Motion Sensor inputs 800mA total						3-Zone R 1, 2, 3		1-Zone R 4		Remote LightSync Input Devices				
		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	LS-G3 1ZND	
FF	Relay 1	On-A / Off-B	Vacancy-off	On-A / Off-B	On-A / Off-B	On-A / Off-B	Vacancy-off					PB:1-on/off	PB:1-on/off		On/Off Togg.	
	Dim 01.1	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		
	Relay 2	On-A / Off-B	Vacancy-off	On-A / Off-B	On-A / Off-B	On-A / Off-B	Vacancy-off					PB:2-on/off	PB:2-on/off		On/Off Togg.	
	Dim 01.2	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		
	Relay 3	On-A / Off-B	Vacancy-off	On-A / Off-B	On-A / Off-B	On-A / Off-B	Vacancy-off					PB:3-on/off	PB:3-on/off		On/Off Togg.	
Dim 01.3	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			
Relay 4	On-A / Off-B	Vacancy-off	On-A / Off-B	On-A / Off-B	On-A / Off-B		On-A / Off-B	Vacancy-off			PB:4-on/off		PB:1-on/off	On/Off Togg.		
Dim 01.4	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			

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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