

Submittal Transmittal

Date: Oct 26, 2016 8:40 AM CDT

Transmitted To:

Eaton Lighting Systems Eaton's Cooper Lighting 203 Cooper Circle Peachtree City, GA 30269

Transmitted By:

Kendra Shell

Eaton's Cooper Lighting 203 Cooper Circle Peachtree City, GA 30269

Project

Newington Forest Elementary

Remarks

- 1 This is a complete shop drawing submittal with lighting controls added to lighting plan as follows:
- 1.1 Added boundary for each control zone
- 1.2 Existing notes and lighting control symbols have been replaced with Eaton's Cooper Lighting notes and symbols
- 2 Additional Drawings have also been added by Eaton's Cooper Lighting:
- 2.1 Device Wiring Diagrams
- 2.2 Lighting Riser Diagrams
- 3 Contractor must install each device supplied by Eaton's Cooper Lighting as per the "Device Wiring Diagrams" above.
- 4 Contractor to terminate all lighting control wires as per the "Schedules" provided.
- 5 Contractor to test and verify the operation of all lighting controls as per the "Testing and Startup Procedures" provided in this submittal.



Eaton's Cooper Controls Business 203 Cooper Circle Peachtree City, GA 30269 tel: 800-553-3879 fax: 800-954-7016

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- **15. Warranty Information**



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Submittal & Order Release

Job Name: Newington Forest Elementary

Please forward this form and a copy of the bill of material page to Eaton's Cooper Controls releasing **PO** for manufacturing and shipment. Please verify the bill of material, quantities, voltages and switches and wall plate configurations, colors, and finishes are correct. Please make any changes required on this sheet or on the bill of materials page. If the information provided is not correct and has been built for this order or shipped you may incur restocking or handling fees.

The order will not be released without this form.

_____Bill of Material Is Correct, please release.

Bill of Material Is Not Correct. Please see notes below or attached sheet and release.

Notes:

Signature

Company Name

Date



Notes

Quote based on drawings EL3.01, E3.02, E3.03, E3.04, E3.05 dated 3.14.16. If newer drawings become available, please contact Eaton Controls for a requote.

Items not included on this quotation are not included in this price.

If the Bill of Materials changes please contact Cooper Controls for a re-quote.

Adders are not included in the quote total.

Quoted startup amount covers commissioning during normal business hours M-F. After hours commissioning will require a revised guote

No receptacle control included in this quote

No site lighting included in this quote

No DMX integration included in this quote.

No metering included in this quote.

All dimming is assumed to be 0-10V.

Standard warranty applies

Standard submittals apply

No spare relays included in this quote

No graphical interface included in this quote

No spare hardware included in this quote. Relays are not individually replaceable. Factory startup broken into 3 phases per drawings.





Bill of Materials



Newington Forest Elementary

Quantity	Brand	Catalog #/ Line Comments		
15	Greengate Panels	CK4A-SLRC ControlKeeper 4A 0-10V dimming panel with latching relays		
3	Greengate Panels	DF10P-C1 Decorator Dimmer 0-10V, 120/277 VAC, w/ White, Ivory and Almond faceplate color kit		
2	Greengate Panels	GDS-2TLB-W GDS 2 Large button White install white, provide other color plates to owner for storage (BGA)		
2	Cooper Controls	ENGRV-2BTNL-W 2 Large Button White Requires Custom Text Order Form		
2	Greengate Panels	GDS-3TLB-W GDS 3 Large button White		
2	Cooper Controls	ENGRV-3BTNL-W 3 Large Button White Requires Custom Text Order Form		
3	Greengate Panels	GDS-5TSB-W GDS 5 Small button White		
3	Cooper Controls	ENGRV-5BTNS-W 5 Small Button White Requires Custom Text Order Form		
2	Greengate Panels	GDS-6TSB-W GDS 6 Small button White		
1	Cooper Controls	ENGRV-6BTNS-W 6 Small Button White Requires Custom Text Order Form		
5	Greengate Panels	GDS-I-KIT GDS Integrator KIT		
71	Greengate Occupancy Sensors	SP20-MV Switchpack Heavy Duty, 120/277V		
79	Greengate Panels	GMDS-W Momentary Decorator Switch - White		
137	Greengate Occupancy Sensors	OAC-DT-2000-R MicroSet Dual Technology 2000 sq ft ceiling sensor w/BAS Relay & Daylight Sensor		
47	Greengate Panels	OCC-RJ45 RJ45 to standard Greengate Low Voltage Occupancy Sensor also BMS and Egress output Device		
86	Greengate Panels	RC3D-PL-N 3 Relay + 3 Dimmers Room Controller Network 120/277VAC		
86	Greengate Panels	PDR-RC-6TSB White 6 Small Button Station Custom		
55	Greengate Occupancy Sensors	ONW-D-1001-MV-W White Dual Technology Single Level Switch Sensor 120/277		

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10	Greengate Occupancy Sensors	OSP20-RDH Pack w/Dry Contact & Override Inputs
4	Greengate Panels	PC-I Analog Indoor Photosensor
10	Greengate Panels	PPS-5 Contact Input Outdoor Photosensor
1	Greengate Panels	KEEPER NW KIT Network Keeper Enterprise Includes Cable Kit
1	Greengate Panels	EIM (EIM) Ethernet Interface Module Requires buliding LAN connection
1	Greengate Panels	FPC-N34-1130 BMS Pro.BACnet
1	Greengate Panels	HHPR-RC Personal Control/Scene Programmer
3	Greengate Occupancy Sensors	OAWC-DT-120W-R OAWC-DT Dual Technology Wall/Corner Sensor 1200 sq ft w/BAS
10	Greengate Panels	PDR-RC-6TSB (SPARE) White 6 Small Button Station Custom
2	Greengate Panels	RPTR Network Repeater



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QTY	SYMBOL	MODEL/DESCRIPTION -R = isolated relay -N = Neutral required			
6	PPS-5	PPS-5 Contact Input Outdoor Photosensor			
29	CT2-R	OAC-DT-2000-R MicroSet Dual Technology 2000 sq ft ceiling sensor w/BAS Relay & Daylight Sensor			
1	DT1.2-R	OAWC-DT-120W-R OAWC-DT Dual Technology Wall/Corner Sensor 1200 sq ft w/BAS			
17	D1 ONW-D-1001-MV	ONW-D-1001-MV-W White Dual Technology Single Level Switch Sensor 120/277 white OK (BGA)			
14	₩v	SP20-MV Switchpack Heavy Duty, 120/277V			
6		OSP20-RDH Pack w/Dry Contact & Override Inputs			
14	RC3DE-PL-N	RC3D-PL-N 3 Relay + 3 Dimmers Room Controller Network 120/277VAC			
9	(pros)	OCC-RJ45 RJ45 to standard Greengate Low Voltage Occupancy Sensor also BMS and Egress output Device			
15	(\$ ^{6TSB} PDR	PDR-RC-6TSB White 6 Small Button Station Custom white OK (BGA)			
18	\$gmds	GMDS-W Momentary Decorator Switch - White	whi	te OK (BC	GA)
2		GDS-2TLB-W GDS 2 Large button White	white OK	(BGA)	
1		GDS-5TSB-W GDS 5 Small button White	white OK (E	BGA)	
2		GDS-6TSB-W GDS 6 Small button White	-white OK	(BGA)	
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GENERAL NOTES

SENSOR NOTES:

F₁-N Eaton's Cooper Controls Business 1-800-553-3879 Phone 1-800-954-7016 Fax 203 Cooper Circle Peachtree City, GA 30269

DATE

SCALE

0.0

1/8" = 1'-0"

REVISION

Newington Forest Elementary

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2.TO PREVENT FALSE ACTIVATION,						
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STRONG AIR TURBULENCE. IN NORMAL AIRFLOW CONDITIONS SENSORS SHOULD BE MOUNTED						
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<u> </u>		MODEL/DESCRIPTION -R = isolated relay				
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-	PPS-5	PPS-5 Contact Input Outdoor Photosensor				
31	DT2-R	OAC-DT-2000-R MicroSet Dual Technology 2000 sq ft ceiling sensor w/BAS Relay & Daylight Sensor				
1	DT1.2-R	OAWC-DT-120W-R OAWC-DT Dual Technology Wall/Corner Sensor 1200 sq f w/BAS				
1	DT1.2-R DT1.2-R DT1.2-R	OAWC-DT-120W-R OAWC-DT Dual Technology Wall/Corner Sensor 1200 sq f w/BAS ONW-D-1001-MV-W White Dual Technology Single Level Switch Sensor 120/277				
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Eaton's Cooper Controls Business 1-800-553-3879 Phone 1-800-954-7016 Fax 203 Cooper Circle Peachtree City, GA 30269 Newington Forest Elementary DATE SHEET SCALE 1/8" = 1'-0" REVISION 0.0



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1	Orps-5	PPS-5 Contact Input Outdoor Photosensor					
	DT2-R	OAC-DT-2000-R MicroSat Dual Technology 2000 sg ft ceiling sensor w/BAS					
23		Relay & Daylight Sensor					
1	DT1.2-R	OAWC-DT-120W-R OAWC-DT Dual Technology Wall/Corner Sensor 1200 sq ft					
		w/BAS					
15	D1 0NW-D-1001-MV	ONW-D-1001-MV-W White Dual Technology Single Layel Switch Sensor 120/277					
		White Dual realinology Single Level Switch Sensor 120/2/7					
11		SP20-MV					
	MV	Switchpack Heavy Duty, 120/277V					
20	RC3DE-PL-N	RC3D-PL-N 3 Relay + 3 Dimmers Room Controller Network 120/277VAC					
10	FEERE	OCC-RJ45 RJ45 to standard Greengate Low Voltage Occupancy Sensor also BMS and Egress output Device					
20	\$ ETSB PDR	PDR-RC-6TSB White 6 Small Button Station Custom					
11	\$GMDS	GMDS-W Momentary Decorator Switch - White					
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GENERAL NOTES SENSOR NOTES: LOCATION OF ALL SENSORS IS APPROXIMATE. REVIEW INSTALLATION INSTRUCTIONS BEFORE INSTALLING SENSORS. 2.TO PREVENT FALSE ACTIVATION, ULTRASONIC CEILING MOUNT SENSORS SHOULD BE MOUNTED AWAY FROM THE PATH OF STRONG AIR TURBULENCE. IN NORMAL AIRFLOW CONDITIONS SENSORS SHOULD BE MOUNTED FOUR TO SIX FEET AWAY FROM SOURCE. FOR TYPICAL PLACEMENT, REFER TO LOCATION DIAGRAMS. IN LOCATIONS WITH STRONG AIR TURBULENCE A PIR CEILING SENSOR SHOULD BE CONSIDERED. 3.CONTRACTOR IS RESPONSIBLE FOR PROPER TIME DELAY AND SENSITIVITY ADJUSTMENTS WHEN APPLICABLE. 4.CONTRACTOR SHOULD FOLLOW MANUFACTURER'S RECOMMENDED PLACEMENT AND VERIFY CIRCUITS WITH RESPECT TO SWITCHPACKS NEEDED IN THE FIELD. 5.CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF THE NUMBER OF SWITCHPACKS NEEDED. ONE SWITCHPACK PER CIRCUIT. 6.MULTIPLE CIRCUITS MAY BE CONTROLLED BY ONE SENSOR BY USING ADDITIONAL SWITCHPACKS. MAXIMUM OF TEN SWITCHPACKS PER SENSOR. see previous sheet for comments(BGA) SENSOR LEGEND MODEL/DESCRIPTION -R = isolated relay QTY SYMBOL -N = Neutral required OAC-DT-2000-R / MicroSet Dual Technology 2000 sq ft ceiling sensor w/BAS Relay & Daylight Sensor NW-D-1001-MV-W Mhite Dual Technology Single Level Switch Sensor 120/277 SP20-MV ►_{MV} Switchpack Heavy Duty, 120/277V RC3D-PL-N 22 RC3DE-PL-N 3 Relay + 3 Dimmers Room Controller Network 120/277VAC RJ45 to standard Greengate Low Voltage Occupancy Sensor also BMS and Egress output Device \$ FDRPDR-RC-6TSBWhite 6 Small Button Station Custom \$GMDS GMDS-W Momentary Decorator Switch - White

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SWITCH	BUTTON	LOCATION	RELAY'S CONTROLLED	LABEL	REMARKS
	1	MAIN ELEC. RM 129	LCP-A 5, 6; LCP-F 1, 2; LCP-B 2, 3; LCP-C 1, 2; LCP-LIB	ALL ON	CONTROLS SITE LTG ON
DS-A	2		LCP-A 5, 6; LCP-F 1, 2; LCP-B 2, 3; LCP-C 1, 2; LCP-LIB	ALL OFF	SIDES
	1		LCP-F 5, 6	ALL ON/OFF	TOGGLE
	2	GYM	LCP-F 6	Z1 (RAISE)	DIMMING
DS-B	3	OFFICE	LCP-F 6	Z1 (LOWER)	DIMMING
	4	120B	LCP-F 5	Z2 (RAISE)	DIMMING
	5		LCP-F 5	Z2 (LOWER)	DIMMING
	1		LCP-A 1,2	Z1 (ON)	100% ILLUMINATION
	2		LCP-A 1 (ON), LCP-A 2 (OFF)	Z1 (A/V)	50% ILLUMINATION
DS-C	3	CAFETERIA	LCP-A 1,2	Z1 (OFF)	
DS-D	4	105	LCP-A 3,4	Z2 (ON)	100% ILLUMINATION
	5] [LCP-A 3 (ON), LCP-A 4 (OFF)	Z2 (A/V)	50% ILLUMINATION
	6		LCP-A 3,4	Z2 (OFF)	
	1	MAIN ELEC.	LCP-B 1; LCP-C 3; LCP-D 1, 2, 3, 4, 5; LCP-E 1; LCP-F 1	ALL ON	CONTROLS CORRIDOR
D9-E	2	RM 129	LCP-B 1; LCP-C 3; LCP-D 1, 2, 3, 4, 5; LCP-E 1; LCP-F 3, 4	ALL OFF	LIGHTING
	1		LCP-LIB 1 THRU 5	ALL ON/OFF	TOGGLE
-	2		LCP-LIB 1, 5	Z1 (RAISE)	DIMMING
DS-F	3	CIRC. DESK	LCP-LIB 1, 5	Z1 (LOWER)	DIMMING
•	4	160	LCP-LIB 2, 3, 4	Z2 (RAISE)	DIMMING
	5] [LCP-LIB 2, 3, 4	Z2 (LOWER)	DIMMING
	1	LIBRARY	LCP-LIB 2, 4	ON/OFF	TOGGLE
DS-G	2	TEACH.	LCP-LIB 2, 4	(RAISE)	DIMMING
	3	160	LCP-LIB 2, 4	(LOWER)	DIMMING
	1	LIBRARY	LCP-LIB 3	ON/OFF	TOGGLE
DS-H	2	STORY PIT	LCP-LIB 3	(RAISE)	DIMMING
	3	160	LCP-LIB 3	(LOWER)	DIMMING
.C-003 1/13 JPDATED					

⊢I AY			EOGD EID		
NO.	NO.	DESCRIPTION	DESCRIPTION	NO.	NO.
1	HA-11	MAIN LOBBY (DAYLIGHT HARVEST ZONE)	MAIN LOBBY (DAYLIGHT HARVEST ZONE)	HA-12	2
3	HA-13	MAIN LOBBY (DAYLIGHT HARVEST ZONE)	MAIN LOBBY LIGHTING	HA-14	4
5		SPARE	SPARE		6
7		SPARE	SPARE		8
9 11					10
12					1/
ა 5					14
)					10
		LCP RELAY SC	HEDULE (LCP-A) MICRO PANEL	ELEC. R	M. 114
LAY	CIRCUIT	DESCRIPTION	DESCRIPTION	CIRCUIT	RELAY
0. 1	NO.			NO.	NO.
2					2 1
5	H1A-5	CANOPY LIGHTING (FRONT ENTRANCE)		Η1Δ-12	6
7	H1A-11	NORTH VESTIBULE LIGHTING	SPARE		8
					I
		LCP RELAY SC	HEDULE (LCP-B) MICRO PANEL	ELEC. R	M. 141
_AY] O		DESCRIPTION	DESCRIPTION		
<u>,</u>	H1B-7	CORRIDOR LIGHTING	SITE LIGHTING	H1B-12	2
	H1B-9	BUILDING MOUNTED LIGHTING	SPARE		4
					6
,					8
A \ (LCP RELAY SC	HEDULE (LCP-C) MICRO PANEL	ELEC. R	M. 186
AY כ		DESCRIPTION	DESCRIPTION	NO	RELAY NO
	H1C-10	CANOPY LIGHTING (REAR ENTRANCE)	BUILDING MOUNTED LIGHTING	H1C-1	2
	H1C-8	CORRIDOR LIGHTING	SPARE		4
					6
					8
5 7					8
7		 LCP RELAY SC	HEDULE (LCP-D) MICRO PANEL	ELEC. R	8 M. 206
AY	CIRCUIT	 LCP RELAY SC DESCRIPTION	HEDULE (LCP-D) MICRO PANEL DESCRIPTION	ELEC. R	8 M. 206 RELAY NO.
AY D.	CIRCUIT NO. H2B-7	LCP RELAY SC DESCRIPTION CORRIDOR LIGHTING	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE	ELEC. R CIRCUIT NO.	8 M. 206 RELAY NO. 2
ΑY).	 CIRCUIT NO. H2B-7 	LCP RELAY SC DESCRIPTION CORRIDOR LIGHTING SPARE	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE	ELEC. R CIRCUIT NO. 	8 M. 206 RELAY NO. 2 4
AY D.	 CIRCUIT NO. H2B-7 	LCP RELAY SC DESCRIPTION CORRIDOR LIGHTING SPARE SPARE	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE SPARE	ELEC. R CIRCUIT NO. 	8 M. 206 RELAY NO. 2 4 6
AY <u>)</u>	 CIRCUIT NO. H2B-7 	LCP RELAY SC DESCRIPTION CORRIDOR LIGHTING SPARE	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE SPARE 	ELEC. R CIRCUIT NO. 	8 M. 206 RELAY NO. 2 4 6 8
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AY D. , , , , , , , , , ,	CIRCUIT NO. H2B-7 	LCP RELAY SC DESCRIPTION CORRIDOR LIGHTING SPARE SPARE LCP RELAY SCH DESCRIPTION	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE SPARE 	ELEC. R CIRCUIT NO. ELEC. R CIRCUIT NO.	8 M. 206 RELAY NO. 2 4 6 8 M. 206 RELAY NO.
AY). AY).	CIRCUIT NO. H2B-7 CIRCUIT NO. H2B-6	LCP RELAY SC DESCRIPTION CORRIDOR LIGHTING SPARE SPARE LCP RELAY SCH DESCRIPTION LIBRARY LIGHTING OTOPY PIT HOLITING	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE SPARE IEDULE (LCP-LIB) MICRO PANEL DESCRIPTION TEACH. AREA LIGHTING	ELEC. R CIRCUIT NO. ELEC. R CIRCUIT NO. H2B-5	8 M. 206 RELAY NO. 2 4 6 8 M. 206 RELAY NO. 2
AY). AY).	CIRCUIT NO. H2B-7 CIRCUIT NO. H2B-6 H2B-16	LCP RELAY SC DESCRIPTION CORRIDOR LIGHTING SPARE SPARE LCP RELAY SCH DESCRIPTION LIBRARY LIGHTING STORY PIT LIGHTING LIBRARY DOM/NU CULTING	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE SPARE IEDULE (LCP-LIB) MICRO PANEL DESCRIPTION TEACH. AREA LIGHTING TEACH. AREA DOWN LIGHTING BUILDING MOUNTED LICUTING	ELEC. R CIRCUIT NO. ELEC. R CIRCUIT NO. H2B-5 H2B-13	8 M. 206 RELAY NO. 2 4 6 8 M. 206 RELAY NO. 2 4 6
AY D. AY D. AY D. AY	CIRCUIT NO. H2B-7 CIRCUIT NO. H2B-6 H2B-16 H2B-13 		HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE SPARE EDULE (LCP-LIB) MICRO PANEL DESCRIPTION TEACH. AREA LIGHTING TEACH. AREA DOWN LIGHTING BUILDING MOUNTED LIGHTING SPARF	ELEC. R CIRCUIT NO. ELEC. R CIRCUIT NO. H2B-5 H2B-13 H2B-14 	8 M. 206 RELAY NO. 2 4 6 8 M. 206 RELAY NO. 2 4 6 8
AY O. 1 3 7 AY O. 1 3 5 7 - - - - - - - - - - - - -	CIRCUIT NO. H2B-7 CIRCUIT NO. H2B-6 H2B-16 H2B-13 	Interview Interview Interview	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE SPARE BEDULE (LCP-LIB) MICRO PANEL DESCRIPTION TEACH. AREA LIGHTING TEACH. AREA LIGHTING BUILDING MOUNTED LIGHTING SPARE	ELEC. R CIRCUIT NO. ELEC. R CIRCUIT NO. H2B-5 H2B-13 H2B-14 	8 M. 206 RELAY NO. 2 4 6 8 M. 206 RELAY NO. 2 4 6 8
AY 0. 1 3 5 7 AY 0. 1 3 5 7	CIRCUIT NO. H2B-7 CIRCUIT NO. H2B-6 H2B-16 H2B-13 	LCP RELAY SC DESCRIPTION CORRIDOR LIGHTING SPARE SPARE SPARE OUTRELAY SCH LCP RELAY SCH DESCRIPTION LIBRARY LIGHTING STORY PIT LIGHTING LIBRARY DOWN LIGHTING SPARE	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE SPARE IEDULE (LCP-LIB) MICRO PANEL DESCRIPTION TEACH. AREA LIGHTING TEACH. AREA LIGHTING BUILDING MOUNTED LIGHTING SPARE HEDULE (LCP-E) MICRO PANEL	ELEC. R CIRCUIT NO. ELEC. R CIRCUIT NO. H2B-5 H2B-13 H2B-14 ELEC. R	8 M. 206 RELAY NO. 2 4 6 8 M. 206 RELAY NO. 2 4 6 8 M. 251
AY 0. 1 3 5 7 AY 0. 1 3 5 7 AY	CIRCUIT NO. H2B-7 CIRCUIT NO. H2B-6 H2B-16 H2B-13 	LCP RELAY SC DESCRIPTION CORRIDOR LIGHTING SPARE LCP RELAY SCH DESCRIPTION LIBRARY LIGHTING STORY PIT LIGHTING LIBRARY DOWN LIGHTING SPARE LIBRARY DOWN LIGHTING SPARE	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE SPARE HEDULE (LCP-LIB) MICRO PANEL DESCRIPTION TEACH. AREA LIGHTING TEACH. AREA LIGHTING BUILDING MOUNTED LIGHTING SPARE HEDULE (LCP-E) MICRO PANEL DESCRIPTION	ELEC. R CIRCUIT NO. ELEC. R CIRCUIT NO. H2B-5 H2B-13 H2B-14 ELEC. R CIRCUIT	8 M. 206 RELAY NO. 2 4 6 8 M. 206 RELAY NO. 2 4 6 8 M. 251 RELAY
AY 7 AY 0. 3 5 7 AY 0. AY 0. AY 0.	CIRCUIT NO. H2B-7 CIRCUIT NO. H2B-6 H2B-16 H2B-16 H2B-13 CIRCUIT NO. H2B-13 	Image: Construction of the second	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE SPARE DESCRIPTION TEACH. AREA LIGHTING TEACH. AREA LIGHTING TEACH. AREA DOWN LIGHTING BUILDING MOUNTED LIGHTING SPARE HEDULE (LCP-E) MICRO PANEL DESCRIPTION SPARE	ELEC. R CIRCUIT NO. ELEC. R CIRCUIT NO. H2B-5 H2B-13 H2B-14 ELEC. R CIRCUIT NO. CIRCUIT NO.	8 M. 206 RELAY NO. 2 4 6 8 M. 206 RELAY NO. 2 4 6 8 M. 251 RELAY NO. 2
AY D. AY D. AY D. AY D.	CIRCUIT NO. H2B-7 CIRCUIT NO. H2B-6 H2B-16 H2B-16 H2B-13 CIRCUIT NO. H2B-13 	Image: constraint of the section of	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE SPARE EDULE (LCP-LIB) MICRO PANEL DESCRIPTION TEACH. AREA LIGHTING TEACH. AREA DOWN LIGHTING BUILDING MOUNTED LIGHTING SPARE HEDULE (LCP-E) MICRO PANEL DESCRIPTION	ELEC. R CIRCUIT NO. ELEC. R CIRCUIT NO. H2B-5 H2B-13 H2B-14 ELEC. R CIRCUIT NO. CIRCUIT NO. CIRCUIT NO.	8 M. 206 RELAY NO. 2 4 6 8 M. 206 RELAY NO. 2 4 6 8 M. 251 RELAY NO. 2 4
AY D. AY D. AY D. AY D. AY D. AY	CIRCUIT NO. H2B-7 CIRCUIT NO. H2B-6 H2B-16 H2B-16 H2B-13 CIRCUIT NO. H2C-10 H2C-10	Image: constraint of the sector of the seccor of the sector of the sector of the sector of the se	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE SPARE DESCRIPTION TEACH. AREA LIGHTING TEACH. AREA LIGHTING TEACH. AREA DOWN LIGHTING BUILDING MOUNTED LIGHTING SPARE HEDULE (LCP-E) MICRO PANEL DESCRIPTION	ELEC. R CIRCUIT NO. ELEC. R CIRCUIT NO. H2B-5 H2B-13 H2B-14 ELEC. R CIRCUIT NO. CIRCUIT NO. H2B-14 	8 M. 206 RELAY NO. 2 4 6 8 M. 206 RELAY NO. 2 4 6 8 M. 251 RELAY NO. 2 4 6 8
AY 7 AY 2. 4 3 5 7 AY 2. 3 5 7 AY 2. 3 5 7 - - - - - - - - - - - - -	CIRCUIT NO. H2B-7 CIRCUIT NO. H2B-6 H2B-16 H2B-16 H2B-13 CIRCUIT NO. H2C-10 H2C-10	Image: Construction of the sector of the	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE SPARE EDULE (LCP-LIB) MICRO PANEL DESCRIPTION TEACH. AREA LIGHTING TEACH. AREA LIGHTING BUILDING MOUNTED LIGHTING BUILDING MOUNTED LIGHTING SPARE HEDULE (LCP-E) MICRO PANEL DESCRIPTION SPARE 	ELEC. R CIRCUIT NO. ELEC. R CIRCUIT NO. H2B-5 H2B-13 H2B-14 ELEC. R CIRCUIT NO. CIRCUIT NO. CIRCUIT NO. 	8 M. 206 RELAY NO. 2 4 6 8 M. 206 RELAY NO. 2 4 6 8 M. 251 RELAY NO. 2 4 6 8
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AY 7 AY 0. 1 3 5 7 AY 0. 1 3 5 7 AY 0. 1 3 5 7 AY 0. 1 3 5 7 AY 0. 1 3 5 7 - AY 0. 1 - - - - - - - - - - - - -	CIRCUIT NO. H2B-7 CIRCUIT NO. H2B-6 H2B-16 H2B-16 H2B-13 CIRCUIT NO. H2C-10 CIRCUIT NO. H2C-10 	Image: LCP RELAY SC DESCRIPTION CORRIDOR LIGHTING SPARE SPARE SPARE Image: CORRIDOR LIGHTING SPARE Image: CORRIDOR LIGHTING DESCRIPTION LIBRARY LIGHTING STORY PIT LIGHTING STORY PIT LIGHTING STORY PIT LIGHTING SPARE DESCRIPTION LCP RELAY SC DESCRIPTION CORRIDOR LIGHTING SPARE Image: CORRIDOR LIGHTING SPARE Image: CORRIDOR LIGHTING SPARE Image: CORRIDOR LIGHTING SITE LIGHTING CORRIDOR LIGHTING	HEDULE (LCP-D) MICRO PANEL DESCRIPTION SPARE SPARE SPARE SPARE EDULE (LCP-LIB) MICRO PANEL DESCRIPTION TEACH. AREA LIGHTING TEACH. AREA LIGHTING BUILDING MOUNTED LIGHTING SPARE HEDULE (LCP-E) MICRO PANEL DESCRIPTION SPARE HEDULE (LCP-F) MICRO PANEL DESCRIPTION SPARE 	ELEC. R CIRCUIT NO. ELEC. R CIRCUIT NO. H2B-5 H2B-13 H2B-14 ELEC. R CIRCUIT NO. ELEC. R CIRCUIT NO. ELEC. R CIRCUIT NO. 	8 M. 206 RELAY NO. 2 4 6 8 M. 206 RELAY NO. 2 4 6 8 M. 251 RELAY NO. 2 4 6 8 M. 251 RELAY NO. 2 4 6 8 M. 251 RELAY NO. 2 4 6 8
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	G	ENERAL NOTES
<u>SEN</u> 1.LO AP INS BE	SOR NOT CATION (PROXIMA STALLATI FORE IN	<u>ES:</u> DF ALL SENSORS IS ATE. REVIEW ON INSTRUCTIONS STALLING SENSORS.
2.TC UL SE AV ST NC SE FC SC PL DI/ ST CE CC	PREVEN TRASON NSORS S VAY FROM RONG AI DRMAL AI NSORS S DUR TO S DURCE. F ACEMEN AGRAMS. RONG AI EILING SE DNSIDERE	IT FALSE ACTIVATION, IC CEILING MOUNT SHOULD BE MOUNTED M THE PATH OF R TURBULENCE. IN RFLOW CONDITIONS SHOULD BE MOUNTED IX FEET AWAY FROM TOR TYPICAL T, REFER TO LOCATION IN LOCATIONS WITH R TURBULENCE A PIR NSOR SHOULD BE ED.
3.CC FC SE AP	ONTRACT OR PROPE INSITIVIT PLICABL	OR IS RESPONSIBLE ER TIME DELAY AND Y ADJUSTMENTS WHEN E.
4.CC MA PL WI NE	ONTRACT ANUFACT ACEMEN TH RESP EDED IN	OR SHOULD FOLLOW URER'S RECOMMENDED T AND VERIFY CIRCUITS ECT TO SWITCHPACKS THE FIELD.
5.CC FC NL NE CII	ONTRACT OR FIELD JMBER OI EDED. O RCUIT.	OR IS RESPONSIBLE VERIFICATION OF THE SWITCHPACKS NE SWITCHPACK PER
6.MU CC US MA PE	JLTIPLE (ONTROLLI SING ADD AXIMUM (R SENSC	CIRCUITS MAY BE ED BY ONE SENSOR BY ITIONAL SWITCHPACKS. OF TEN SWITCHPACKS OR.
	SI	ENSOR LEGEND
QTY	SYMBOL	MODEL/DESCRIPTION -R = isolated relay -N = Neutral required

Eaton's Cooper Controls Business 1-800-553-3879 Phone 1-800-954-7016 Fax 203 Cooper Circle Peachtree City, GA 30269
PROJECT NAME

SHEET

Newington F	orest Eler	nentar	y School			
Spec. Sec. 16505	5.02	_Submitta	I No. <u>140</u>			
Reviewed for general a subcontractor of the respons of the contract. The subcon correct fabrication an	cceptance only. This ibility for making the ntractor is responsible d accurate fit within th	s review does work conform e for all dimer ne work of all	not relieve the to the requirements nsion, coordination, other trades.			
NO EXCEPTION TA			(XX)			
REVISE & RESUBM	IT					
REJECTED			()			
MERIDIAN CONSTRUCTION CO., INC.						
By:	JOUL- DJECT MANAGER	_Date:	11/30/16			

DATE	
SCALE 1/8" = 1'-0"	

REVISION

0.0



Riser and Wiring Diagrams













Cables

CAN Use Eaton Lighting systems LCCNP non-plenum cable or LCCP plenum cable.

RS232 RS-232 Cable (6 feet), provided with product

LV3 Low Voltage Input wire - #18 AWG, 3 conductor wire LAN LAN Cable, Category 5 cable provided by others

QC Quick Connect Cable, Pre-Terminated RJ45 - Category 5 cable

RS485 RS-485 Network Cable, Eaton GG9841(Non Plenum), Eaton GG89841(Plenum) or equivalent



lementary School
Submittal No. 140
This review does not relieve the g the work conform to the requiremen onsible for all dimension, coordination, ithin the work of all other trades.
(X X)
JCTION CO., INC.
Date: 11/30/16

EATON'S COOPER CONTROLS BUSINESS 1-800-553-3879 PHONE 1-800-954-7016 FAX 203 COOPER CIRCLE PEACHTREE CITY, GA 30269

Newington Forest Elementary

DATE SCALE N.T.S.



installation /	wiring	instructions .	

\diamond	RS485	RS-485 Network Cable, Eaton GG
	RS232	RS-232 Cable (6 feet), provided v
\bigcirc	CAN	Use Eaton Lighting systems LCCN
\bigcirc	LV3	Low Voltage Input wire - #18 AW
\bigcirc	LAN	LAN Cable, Category 5 cable prov
\bigcirc	QC	Quick Connect Cable, Pre-Termina

OAC-DT-2000-R Room #s Below

SP20-MV Room #s Below 117, 118, 228, 230, 234, 236

GMDS-W Room #s Below Momentary Decorator White Switch OSP20-RDH Room #s Below 106

Cables

G9841(Non Plenum), Eaton GG89841(Plenum) or equivalent with product NP non-plenum cable or LCCP plenum cable. WG, 3 conductor wire vided by others nated RJ45 - Category 5 cable

A/B Switching

Three Way Switching

Standard Configuration

wire connectors.

NOTE: Connect either the orange or black supply lead to the power source depending upon the power requirements. Cap the unused lead.

Title: Wiring Details Product: (SP15 & SP20) **Heavy Duty Switchpack**

Eaton 1121 Highway 74 South Peachtree City, GA 30269

Date:

Project:

*Refer to Room Controller website for more information on other integral no programming required benefits like Demand Response, Solatube Control, Egress Control, BMS Output, Alert Mode, Emergency Lighting Control, and Slider Stations.

Three Relay + Three Dimmers Wiring Diagram Drawlng Name: Drawlng Date: Drawlng Date:

RC3D-BasicClassroom.dwg

1/10/2013

*Refer to Room Controller website for more information on other integral no programming required benefits like Demand Response, Solatube Control, Egress Control, BMS Output, Alert Mode, Emergency Lighting Control, and Slider Stations.

Peachtree City, GA 30269. USA	Email: controls@cooperindustries.com Website: www.coopercontrol.com	
toom Controller - RC3D Three Relay + Three Dimmers Wiring Diagram		
)rawing Name: Drawing Da		Drawing Date

1/10/2013

RC3D-SliderClassroom.dwg

*Refer to Room Controller website for more information on other integral no programming required benefits like Demand Response, Solatube Control, Egress Control, BMS Output, Alert Mode, Emergency Lighting Control, and Slider Stations.

00000	001100	
203 Cooper Circle Peachtree City, GA 30269. USA	Tel: +1-800-553-3879 Fax: +1-800-954-7016 Email: controls@cooperindustries.com Website: www.coopercontrol.com	
Room Controller - RC3D Three Relay + Three Dimmers Wiring Diagram		
Drawing Name: Drawing Da RC3D-FrontBackClassroom.dwg 1/10/2013		Drawing Date: 1/10/2013

*Refer to Room Controller website for more information on other integral no programming required benefits like Demand Response, Solatube Control, Egress Control, BMS Output, Alert Mode, Emergency Lighting Control, and Slider Stations.

203 Cooper Circle Peachtree City, GA 30269. USA	Tel: +1-800-553-3879 Fax: +1-800-954-7016 Email: controls@cooperindustries.com Website: www.coopercontrol.com	
Room Controller - Three Relay + Thr	RC3D ee Dimmers Wiring Di	agram
Drawing Name: RC3D-ClassroomReceptacle.dwg		Drawing Date: 1/10/2013

*Refer to Room Controller website for more information on other integral no programming required benefits like Demand Response, Solatube Control, Egress Control, BMS Output, Alert Mode, Emergency Lighting Control, and Slider Stations.

Room Controller - RC3D Three Relay + Three Dimmers Wiring Diagram

Drawing Name: RC3D-ClassroomBMS-Egress.dwg Drawing Date 1/10/2013

General information

ControlKeeper M lighting panels are compatible with Greengate Digital Switches (GDS). Greengate Digital Switches are networkable, intelligent, low-voltage switches. Greengate Digital Switches are proprietary to Cooper Controls. Digital switches from other manufacturers are not compatible with the system. GDS Stations are available in large button and small button configurations which offer 1 to 6 buttons per station.

Zone 1	
Zone 2	
Zone 3	
Zone 4	•
Zone 5	
Zone 6	•

Each ControlKeeper M panel has a connection terminal block which allows one GDS switch network to connect directly to the motherboard. Each GDS switch network is capable of powering and supporting up to 32 GDS stations over a 1000 foot (300 meter) distance.

The GDS network is a daisy chain configuration with two distinct ends. The two end devices will be terminated using onboard termination jumpers. Prior to wiring, map out the proposed wiring route to ensure correct installation.

Device

ControlKeeper M

Locate the two end devices on the Greengate Digital Switch network. These two devices should have their termination jumpers in the 'Terminated' position. The remaining devices on the GDS network should have their termination jumpers in the OFF position. Termination jumpers are located on the back of the GDS switch directly next to the GDS network terminal block. On the ControlKeeper M, the termination jumper is below the GDS network wiring terminal block.

Device

Title: General/Network Detail

Product: Greengate Digital Switch

Eaton 1121 Highway 74 South Peachtree City, GA 30269

Device

Date:

Project:

The ControlKeeper M can be wired into the GDS daisy chain anywhere within the network. All GDS wiring should be done using Cooper LCCNP (non plenum), Cooper LCCP (plenum), Belden 1502R (non-plenum) or 1502P (plenum) cable. For best network performance, one of the suggested cables should be used. If the specified cable is not used and communications problems occur that require troubleshooting assistance, additional charges will apply.

All stations and the CKM terminal block follow the same wiring scheme:

- +24V = Red Wire
- CAN-H = White Wire
- Shield = Shield Wire
- CAN-L = Blue Wire
- GND/0V = Black Wire

Title: Network Wiring Detail

Product: Greengate Digital Switch

Eaton 1121 Highway 74 South Peachtree City, GA 30269 Date:

Project:

The Outdoor Contact Input Photosensor (PPS-5) can be used with any Greengate lighting controller. It is made with a weatherproof casing allowing outdoor application and can operate with temperatures from -40° to 158° F.

The photosensor is powered directly from the Greengate Lighting Controller 24VDC peripheral power terminal.

PC-I	Indoor Photosensor
PC-0	Outdoor Photosensor
PC-S	Skylight Photosensor
PC-A	Atrium Photosensor

Title: Photocell Type Diagrams Application: Analog Photocells	COOPER Controls 203 Cooper Circle Tel: +1-800-553-3879 Peachtree City, Fax: +1-800-954-7016 GA 30269. USA Email: controls@cooperindustrie	Date: Project: es.com

Title: Photocell Placement Diagrams Application: Analog Photocells	COOPER 203 Cooper Circle Peachtree City, GA 30269. USA	Controls Tel: +1-800-553-3879 Fax: +1-800-954-7016 Email: controls@cooperindustries.com	Date: Project:

Mount wallstations to a single gang wallbox with a minimum internal depth of 2 in. (51mm). Up to four wallstations may be connected to the Room Controller to meet your application.

Entry Wallstation Additional Wallstation Additional Wallstation Additional Wallstation (Back) (Back) (Back) (Back)

Office Wallstation Operations

Program No.	Button Text	Control Type	Function (Unless daylight is disabled, dimmer level will be controlled by the daylight sensor only unless target level is indicated)
9	Half Lights	Preset	Load 1 (yellow) ON, Load 2 (red) OFF All dimmers 50% ⁺ Solatube Open (RC3DE only)
10	Full Lights	Preset	Load 1 (yellow) ON, Load 2 (red) ON All dimmers 100% [†]
11	Undercabinet	Toggle	Load 3 (purple) ON and OFF
6	Raise	Raise	Raise all dimmers*†
7	Lower	Lower	Lower all dimmers*
16	All ON	Preset	Load 1 (yellow) ON, Load 2 (red) ON, Load 3 (purple) ON All dimmers 100% [†]
8	All OFF	Preset	Load 1 (yellow) OFF, Load 2 (red) OFF, Load 3 (purple) OFF Solatube Close (RC3DE only)
Slider		Slider	Raise and Lower all dimmers [†]

Classroom Wallstation Operations

Program	Button Text	Control Type	Function
No.			(Unless daylight is disabled, dimmer level will be controlled by the daylight sensor only unless target level is indicated)
1	Entry Row 1 Uplights	Toggle	Load 1 (yellow) ON and OFF Solatube Open (RC3DE only)
2	General Row 2 Downlights	Toggle	Load 2 (red) ON and OFF
3	Whiteboard Row 3 Accent	Toggle	Load 3 (purple) ON and OFF
4	A/V Mode	Toggle	Toggles between A/V mode and normal mode. In A/V mode relays will stay in their previous configuration. Dimmers will be reduced to maintain light levels at 20%. [†]
5	Quiet Time	Toggle	Disables occupancy sensors for 60 minutes. Toggle allows for re-enabling of normal mode prior to the timer expiring.
6	Raise	Raise	Raise all dimmers*†
7	Lower	Lower	Lower all dimmers*
8	All OFF		Load 1 (yellow) OFF, Load 2 (red) OFF, Load 3 (purple) OFF Solatube Close (RC3DE only)
Slider		Slider	Raise and Lower all dimmers ^t

Wallstation Operation

The Room Controller wallstations are pre-labeled and preconfigured for their intended function. They work as soon as they are connected to the Room Controller. Below is a description of the functions of each wallstation button for Office, Classroom and Conference Room configurations. Each button is assigned to a specific program number for how that button should operate. Program numbers may be used for several buttons that accomplish the same goal but may have different engraving. These charts may be used during the checkout process to verify that wallstations are operating properly.

Cooper Controls

203 Cooper Circle Peachtree City, GA 30269. USA

Tel: +1-800-553-3879 Fax: +1-800-954-7016 Email: controls@cooperindustries.com Website: www.coopercontrol.com

Room Controller -

Wallstations

Drawing Name: RC-Wallstation1 dwg

Drawing Date 1/10/2013

Conference Room Wallstation Operations

Program No.	Button Text	Control Type	Function (Unless daylight is disabled, dimmer level will be controlled by the daylight sensor only unless target level is indicated)
12	General	Preset	Load 1 (yellow) ON, Load 2 (red) ON, Load 3 (purple) ON Dimmer 1: 100% [†] , Dimmer 2: 80% [†] , Dimmer 3: 100% [†] Solatube Open (RC3DE only)
13	Meeting	Preset	Load 1 (yellow) ON, Load 2 (red) ON, Load 3 (purple) ON Dimmer 1: 80% [†] , Dimmer 2: 20% [†] , Dimmer 3: 100% [†] Solatube Open (RC3DE only)
11	Whiteboard	Preset	Load 1 (yellow) ON, Load 2 (red) ON, Load 3 (purple) ON Dimmer 1: 50% [†] , Dimmer 2: 100% [†] , Dimmer 3: 25% [†] Solatube Close (RC3DE only)
15	Presentation	Preset	Load 1 (yellow) ON, Load 2 (red) ON, Load 3 (purple) ON Dimmer 1: 30% ⁺ , Dimmer 2: 0% ⁺ , Dimmer 3: 25% ⁺ Solatube Close (RC3DE only)
6	Raise	Raise	Raise all dimmers*†
7	Lower	Lower	Lower all dimmers*
16	All ON	Preset	Load 1 (yellow) ON, Load 2 (red) ON, Load 3 (purple) ON All dimmers 100% [†]
8	All OFF	Preset	Load 1 (yellow) OFF, Load 2 (red) OFF, Load 3 (purple) OFF Solatube Close (RC3DE only)
Slider		Slider	Raise and Lower all dimmers [†]

Wallstation Images

Program numbers may be used for several buttons that accomplish the same goal but may have different engraving. These charts may be used during the checkout process to verify that wallstations are operating properly.

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 Fax: +1-800-954-7016

 GA 30269. USA
 Website: www.coopercontrol.com

 Room Controller Wallstations

 Drawing Name:
 Drawing Date:

 RC-Wallstation2.dwg
 1/10/2013

The Ethernet Interface Module (EIM) can be connected to any controller in the network

One Sensor, One Switchpack Hot Line SENSOR WIRE LEAD LEGEND Neutra Black (Common) **Use Black Lead for 120 VAC White **Hot Blue Red (10-30 VDC) Use Orange Lead for 277 VAC Bue (Control) Cap Unused Lead Load 1 Yelow (Control) (Switch-Blue Lead Control) Brown Black(Common) Blue (Switch-Yellow Lead Control) Brown/White Red (15 VDC) Blue (Control) Sensor's Isolated Relay Switchpack (Normally Open) Orange Gray (Common) To Additional Sensors. Maximum of 5 sensors Purple (Normally Closed) per switchpack. Black Red Blue Optional Greengate GMDS Switch-Yellow Blue Control Lead-Manual on/off oll Brown (Use GMDS Switch Only in Single Sensor Applications) Brown/White Orange Gray Purple Recommended Wire: 18-3 AWG stranded non-shielded **Title: Wiring Details COOPER** Controls Date: 203 Cooper Circle Tel: +1-800-553-3879 **Product: (OAWC-DT) Project:** Peachtree City, Fax: +1-800-954-7016 **Dual Tech Wall/Corner Mount** GA 30269. USA Email: controls@cooperindustries.com

DP Switch Levend

The ProtoNode uses a 9-30VDC power input and can be powered from auxiliary power generated from most lighting control panels. If auxiliary power is not available a separate power supply should be provided.

TITLE: LIGHTING CONTROLS Network Topology

THE INFORMATION ON THIS DRAW ING IS TH

EATON CORPORATION. IT IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE REPRODUCES, USED, OR DISCLOSED EXCEPT FOR THE PURPOSE FOR WHICH FURNISHES.

DRAWN:M.A.L	DATE: 8/16/14	PROJ:			
	SCALE, NTS				
UH KU: X.X.	SURLE: NIS		-	-	-
			-	-	-
4000. V V	CHEET, 1/1	DWG #:	-	-	-
AFTR: A.A.	SHEET: 1/1	E2	-	-	-
		EJ	-	-	-
	SIZE:		DATE REV		DESCRIPTION
					REVISION TABLE

<i>Features and</i> Feature	<u>d Benefits :</u> Benefit		P ((((rotoNode Catalog # FPC-N34 Catalog # FPC-N35	- BACnet) - LON)	<u>General Specific</u> Supported Seria	cations I (RS-485) Protocols BA	Cnet MS/TP Modb	us RTU		
Programming			Æ			Supported Ether	net Protocols	BACnet IP Mo	odbus TCP/IP		
Quick and Ea	Built in web browser Intuitive and easy-to-	for easy configuration -use screen layout				Supported Electro	ical Connections	(1) 6 pin Phoe (1) RS-485 +/ (1) Ethernet - (1) FTT-10 Lo 9 20 VPC or 2	nix Connecto - Ground port 10/100 Ethern nWorks⊛port	or Power +/- Frame Ground port iet port (LonWorks⊛Version) root drow @ 12V = 240 mA	
	Device protocol and immediate recognitic	points pre-loaded for n of device and automatic				Operating enviro	nment	Indoor use on	Indoor use only		
	BAS/BMS integration	1			DE	Dimensions	-40°C to 75°C (-40°F to 167°F) Relative humidity (non-condensing): 5 % to 90% 4 52 x 3 25 x 1 60 inches (I xWxH) / (11 49 x 8 25 x 4 06 cm)				
BAS Protocol	user selectable All protocols are fact	ory loaded and available at				Approvals		BACnet Testi	ng Labs (BTL)) B-ASC	
	time of setup		C					LonMark 3.4 (TUV approved RoHS Comp li CE Mark	Certified 1 to UL 916 st ant	andard and CSA C22-2	
					EtHERNET	Warranty		Five-year limi	ed		
						Ethernet Cable	to building LA	١			
				RS 485		- Access to BAS					
				RS 485+	AME_GND	Lighting Contro	Panels				
Power co	onnections to	the ProtoNode			Catalog #	Total Point Capacity	Network Series	Panel Supp	orted	Point Count Per	
Dowor	BrotoNodo			-	FPC-N34-1130	10,000	Greengate	Room Contr	oller	115	
FOwer	Protonode	FIN Source			(ControlKee	er 2	161	
	Pin #				(supports BACnet, Modbus BAS/BMS			ControlKeep	ber 4A	181	
		V+ (auxiliary power f	rom ControlKeeper	-	protocols)			ControlKeep	ber T	213	
Power In (+)	Pin 4	or 3rd party power source	ce)		, ,		il umin	ControlKeep	er M/ MB	225 Record on imported	
		V- (auxiliary GND fro	m ControlKeeper	-				SCUN-FT		Virtual Area file	
Power In (-)	Pin 5	or 3rd party power source	:e)					SCRP			
rame Ground	Pin 6	Frame Ground		-	EDC-N35-1131	4.096	Greendate	SCRPB Room Contr	oller	115	
		i ramo oroana				4,000	Greengate	ControlKee	er 2	161	
					(Supports LON			ControlKeep	ber 4	161	
					BAS/BMS			ControlKeep	per 4A	181	
					protocol)			ControlKeer	per M/ MB	225	
toNode Description a	and Operation:						iLumin	SCUN		Based on imported	
ProtoNode provides up to 10,000 points of control and can								SCUN-FT	SCUN-FT Virtual A		
h ProtoNode can engate or iLumin EIM or EG2–NA).	be programmed to commun network and a single Ethern	et access point (either						SCRPB		-	
Greengate lightin all network lighti dbus, or LON poin	ng control networks the Proto ing control panels and pre-p its of control for each panel	Node will automatically populate the BACnet,									
iLumin lighting	control networks you upload	the iLumin Virtual				1				I	
tem. These are o	automatically mapped to BA	Cnet, Modbus or LON	Pri	otoNode		DRAWN:M.	A.L DATE: 8/16/14	PROJ:			
nts of control.			WIRIN			СН'КD: Х	X. SCALE: NTS				
ProtoNode uses	a 9-30VDC power input and	can be powered from									

The ProtoNode uses a 9-30VDC power input and can be powered from auxiliary power generated from most lighting control panels. If auxiliary power is not available a separate power supply should be provided.

TILE: LIGHTING CONTROLS ProtoNode Diagram THE INFORMATION ON THIS DRAWING IS THE PROPERTY OF EXTON CORPORATION, IT IS DISCLOSED IN CONFERENCE AND IS NOT TO BE REPRODUCES, USED, OR DISCLOSED EXCEPT FOR THE PURPOSE FOR WHICH FURNISHES.

	SCALE: NTS				
CH KD: A.A.	SCALE: HTS		-	-	-
			-	-	-
	SHEET: 1/1	DWG #:	-	-	-
	JIILEI. 1/1	E 2	-	-	-
		LJ	-	-	-
	SIZE:		DATE	REV	DESCRIPTION
					REVISION TABLE

-

BY

Three-way wiring diagram: Lights will turn-off automatically when sensor that detected motion last, times out.

DIP Switch Legend

	Time Delay Activation		ation	PIR Sensitivity Walk-Through Mode			ON/OFF B	ON/OFF Button Override N		Not Used Maintain Lights On		Not U	sed]						
	DIP Switch	1	2	Relay	1 3	Not Used 4	-	5		6		7		8	9		10	11	12	-
	15 Sec Test/Auto*			Auto			Full		Disable		Enable		Disable	•	-	Either				1
	5 Minutes			Manual			50%		Enable		Disable		Enable			Both				1
	15 Minutes		•																	,
	30 Minutes							-	~ ~	_	_	~					_			
1	*Seif-Adjusts to 10 min. user mode		Def	ault = [Den Barrow Max.		Ultrasonic Sensitivity 7 8 9 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Duenda Denate Denate			DIP	Switches				
Title: DIP	Title: DIP Switch Information				COOPER Controls									Date						
Product [•]	NeoSwitc	h (() NN	N-D)		2	203 Cooper Circle Tel: +1-800-553-3879													
				F	Peachtree City, Fax: +1-800-954-7016								Proiect:							
Dual Tech S	ingle Leve	l (Gr	oun	d Req	uire	d) (GA 302	269. US	SA	Emai	I: controls	s@co	operind	ustrie	es.com					

