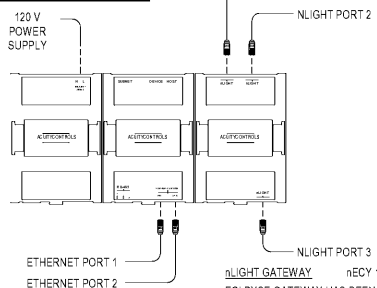
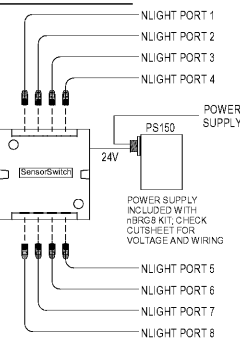


nECY 120 Gateway

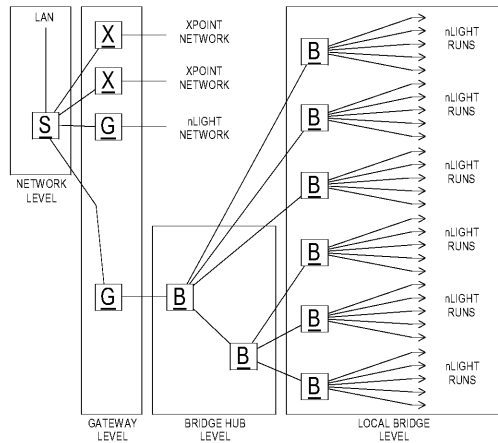


nBRG8 BRIDGE



nLIGHT GATEWAY nECY 120 ECLIPSE GATEWAY HAS BEEN SHOWN HERE AS TYPICAL AND INDICATIVE OF CONNECTION TYPES. PLEASE REFER TO GATEWAY CUTSHEETS FOR MODEL SPECIFIC FEATURES. THE nECY 120 GATEWAY HAS THREE nLIGHT PORTS; PORT 1 IS TYPICALLY USED TO HOST THE nLIGHT NETWORK, PORT 2 IS TYPICALLY LEFT SPARE, AND PORT 3 IS TYPICALLY RESERVED FOR GATEWAY GFK COMMISSIONING INTERFACE. TWO ETHERNET PORTS ARE AVAILABLE WITH A BUILT-IN ETHERNET SWITCH. THE ETHERNET PORTS MAY BE USED TO CONNECT TO A BUILDING OR BMS LAN OR A PERSONAL COMPUTER.

nLIGHT BRIDGE THE nBRG 8 BRIDGE FEATURES 8 nLIGHT PORTS. ONE PORT IS RESERVED FOR UPSTREAM COMMUNICATION, AND ANY NUMBER OF THE REMAINING 7 CAN BE USED FOR DOWNSTREAM COMMUNICATION; ALLOWANCE OF AT LEAST ONE SPARE PORT IS TYPICAL, BUT NOT REQUIRED.



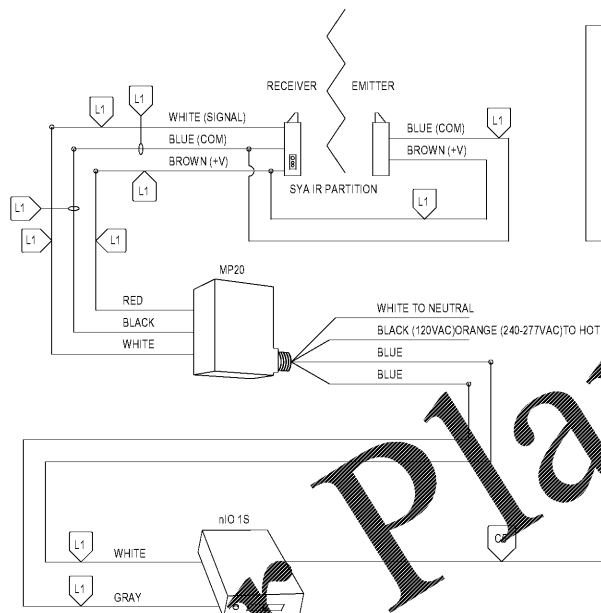
NETWORK LEVEL
ALL nLIGHT GATEWAY DEVICES ARE CONNECTED OVER A LOCAL AREA NETWORK. COMPUTERS ON THIS LEVEL MAY CONNECT THROUGH SENSORVIEW AND BUILDING AUTOMATION SYSTEMS MAY ACCESS SYSTEM OVER BACnet/IP IF THIS OPTION IS PROVIDED.

GATEWAY LEVEL
nLIGHT GATEWAYS ON THIS LEVEL WILL HOST AN nLIGHT NETWORK. THE xPOINT BRIDGE RESIDES ON THIS LEVEL HOSTING AN xPOINT NETWORK. DEVICE ON THIS LEVEL ARE NETWORK BRIDGE HUB LEVEL.

BRIDGE HUB LEVEL
nLIGHT BRIDGES ON THIS LEVEL FUNCTION AS HUBS IN A STAR TOPOLOGY. THE nLIGHT NETWORK HOSTED BY THE GATEWAY MUST BE ROUTED TO EACH BRIDGE ON THE LOCAL BRIDGE LEVEL. EACH BRIDGE HUB WILL UTILIZE ONE PORT TO RUN UPSTREAM (TOWARDS THE GATEWAY) AND ANY NUMBER OF THE REMAINING 7 PORTS TO FEED DOWNSTREAM (TOWARDS nLIGHT ZONE RUNS). LARGE SYSTEMS WILL OFTEN USE A TIERED APPROACH WITH BRIDGE HUBS RUNNING TO ADDITIONAL BRIDGE HUBS; IN THESE SITUATIONS, THE MAXIMUM NUMBER OF BRIDGE HUB TIER IS 8.

LOCAL BRIDGE LEVEL
nLIGHT BRIDGES ON THIS LEVEL UTILIZE ONE PORT TO RUN UPSTREAM (TOWARDS BRIDGE HUBS) AND ANY NUMBER OF THE REMAINING 7 PORTS TO FACILITATE nLIGHT ZONES CONSISTING OF CAT5/6 DASHY-CHAINED nLIGHT LIGHTING CONTROL DEVICES.

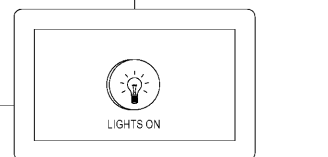
1 TYPICAL nLIGHT NETWORK RISER LAYOUT
NOT TO SCALE



2 FRESKO PARTITION SENSOR DETAIL
NOT TO SCALE

- NOTES 1: WIRING AND SYMBOL NOTES**
- L# QUANTITY OF LOW VOLTAGE CLASS 2 CONDUCTORS (#18 AWG FOR RUNS OF UP TO 500 FEET, #16 AWG FOR RUNS OF UP TO 1200 FEET) AS INDICATED IN THE SYMBOL.
 - A4 CONTROL STATION NETWORK CABLE. CLASS 2 LOW VOLTAGE. TWO CONDUCTORS FOR POWER, PLUS ONE TWISTED SHIELDED PAIR FOR DATA.
 - C5 CAT 5 NETWORK CABLE.

REFER TO POWER SUPPLY DETAIL AND TERMINATION DETAIL FOR MORE INFORMATION



FRESKO TOUCHSCREEN CONTROLLER

LIGHTING CONTROL SCHEDULE							
NAME	NUMBER	MAN ON/ MAN OFF	MAN ON/ VAC. OFF	MAN. ON/ MAN. ADJ./ AUTO OFF	OCC. ON/ VAC. OFF	TIMER SCHEDULE	SCENE CONTROL
FUTURE							
FACULTY OFFICE 8-2	96-2			X		X	
FACULTY OFFICE 7-2	97-2			X			
LOBBY	100					X	
CORRIDOR	101					X	
WAITING	101A						
Space	101B						
DEBRIEFING ROOM	102						X
UNIVERSITY SERVER ROOM	103	X					
USA SERVER	103	X					
ELEV RM	104	X					
PROGRAM SERVER	105	X					
UNISEX	106				X		
CLASSRM	107					X	
UNISEX	108				X		
CLASSRM	109					X	
UNISEX	110					X	
SKILLS LAB	111					X	X
SKILLS LAB	112						X
ELEC	113				X		
VESTIBULE	114					X	
JANITOR	114A						
MECH	115	X					
MENS RESTROOM	116				X		
MEN-1	116-1		X				
MEN-2	116-2				X		
SHOWER	117A				X		
SHOWER	117B				X		
Space	117F						
Space	117G						
WOMEN	118				X		
MECH	119						
MECH	119A	X					
STOR	120				X		
CORRIDOR	121					X	
SIM. LAB	122						X
OBS	122A						
SIM. LAB	123						X
OBS	124						
SIM. LAB	125						X
OBS	126A				X		
SIM. LAB	128						X
OBS	128A				X		
SIM. LAB	130						X
OBS	130A				X		
SIM. LAB	132						X
OBS	132A				X		
TR. WORK	134				X		
LOC	200					X	
CORRIDOR	200A					X	
CORRIDOR	200B					X	
DRAGE	201					X	
LAN	202			X			
CLS LAB - DEBRIEFING ROOM	203						X
CLS BREAK ROOM	204				X		
CLS LAB - DEBRIEFING ROOM	205						X
UNISEX	206				X		
STORAGE	207				X		
CLS NURSE STATION	208				X	X	
STOR	208A				X		
STORAGE	209				X		
CLS PAT RM	210				X		
LARGE CLASSROOM	211						X
LARGE CLASSROOM-2	211-2						X
CLS PAT RM	212			X			
STORAGE	213				X		
CLS PAT RM	214			X			
MECHANICAL	215	X					

LIGHTING CONTROL SCHEDULE							
NAME	NUMBER	MAN ON/ MAN OFF	MAN ON/ VAC. OFF	MAN. ON/ MAN. ADJ./ AUTO OFF	OCC. ON/ VAC. OFF	TIMER SCHEDULE	SCENE CONTROL
CLS PAT RM	216					X	
OFFICE	217					X	
CLS PAT RM	218					X	
OFFICE	219					X	
CLS PAT RM	220					X	
CLS PAT RM	222					X	
CLS PAT RM	224					X	
WORK RM	226					X	
CLS WAITING	228						X
PROGRAM SERVER	230	X					
MEN	232					X	
WOMEN	234					X	
LACT RM	236				X		
UNISEX	238					X	
COPY RM	240				X		
ME	242					X	X
WOMEN	244					X	
BREAK ROOM	246				X		
OFFICE	248					X	
OFFICE	250					X	
OFFICE	252					X	
OFFICE	254					X	
OFFICE	256					X	
OFFICE	258					X	
OFFICE	260					X	
OFFICE	262					X	
OFFICE	264					X	
OFFICE	266					X	
OFFICE	268					X	
CONFERENCE ROOM-1	270-1					X	
CONFERENCE ROOM-2	270-2						
RECEPTION	271						X
CORRIDOR	272						X
LOBBY	300						X
EL-1	EL-100	X					
EL-1	EL-200	X					
EL-1	EL-300	X					
ST-1	ST-100						X
ST-2	ST-101						X
ST-1	ST-200						X
ST-2	ST-201						X
ST-1	ST-300						X
ST-2	ST-301						X

LIGHTING CONTROL SCHEME

MANUAL ON/MANUAL OFF - PROVIDE STANDARD TOGGLE SWITCH FOR ON/OFF CONTROL OF LIGHTING

MANUAL ON/VACANCY OFF - LIGHTS SHALL BE MANUALLY TURNED ON AND AUTOMATICALLY SWITCHED OFF ONCE VACANCY HAS BEEN DETECTED.

MANUAL ON/MANUAL ADJUST/AUTO OFF - LIGHTS SHALL BE MANUALLY TURNED ON, MANUALLY ADJUSTED BETWEEN 1% AND 100%, AND AUTOMATICALLY SWITCHED OFF ONCE VACANCY HAS BEEN DETECTED.

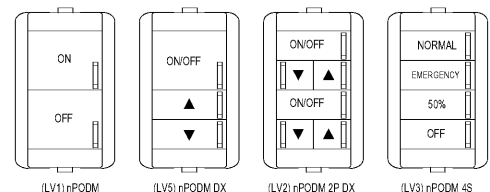
OCCUPANCY ON/VACANCY OFF - UPON DETECTING OCCUPANCY, LIGHTS SHALL BE TURNED ON TO 100% AND AUTOMATICALLY SWITCHED OFF ONCE VACANCY HAS BEEN DETECTED.

TIME SCHEDULE - nLIGHT CONTROLS NETWORKED BACK TO nLIGHT GATEWAY. PROGRAM GATEWAY WITH INTERIOR LIGHTING TIME SCHEDULE AND EXTERIOR LIGHTING TIME SCHEDULE.

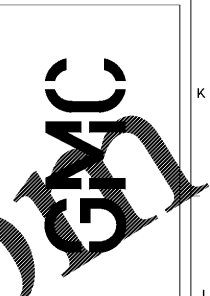
SCENE CONTROL - LIGHTS SHALL BE MANUALLY TURNED ON, MANUALLY ADJUST BETWEEN SCENES AND 1% AND 100%.

NOTES

- COORDINATE WITH LIGHTING PLANS AND LIGHTING CONTROL DETAILS FOR EXACT REQUIREMENTS OF EACH ROOM.
- TIME SCHEDULES SHALL BE COORDINATED WITH OWNER PRIOR TO COMMISSIONING OF LIGHTING CONTROLS.
- OCCUPANCY SENSORS SHALL BE SET TO SHUT OFF LIGHTING AFTER 15 MINUTES OF VACANCY.
- LOW VOLTAGE SWITCHES SHALL BE PROGRAMMED TO BE MANUAL ON UNLESS LOCATED IN OCCUPANCY ON/VACANCY OFF CONTROL SCHEME.



3 SWITCH DETAILS
NOT TO SCALE



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BUILDING - USA JOB #16-07
MOBILE, ALABAMA
ABC #2017372
GMC # AMOB160019



ELECTRICAL LIGHTING CONTROL DETAILS
E603
Sheet 01