

Catalog Number	
Notes	Type

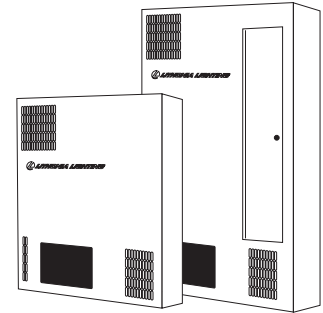
## FEATURES

Synergy® is a unique lighting control system that integrates all aspects of lighting control into a single system platform. Synergy combines architectural dimming, low-voltage switching, lighting automation and lighting energy management functions into a single scalable package capable of meeting the requirements of virtually any lighting control application.

- Integrated and distributed switching and dimming
- Time scheduling with day/date/astromonic functions
- Programmable low voltage inputs
- Integral keypad and display
- Stand-alone panel operation
- Optional building-wide networked operation
- BACnet® native for interoperability with other building systems
- Physical layer connections via Arcnet 156KBS, Ethernet/IP, or MSTP
- Available Windows™ 98, 2000, NT, XP and Vista configuration, control and monitoring software
- UL, C-UL listed; CEC certified

## Lighting Control System

# SY



## ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog number.

Example: **SYELB 24LB1 12DB1 MLS NBAR DMX**

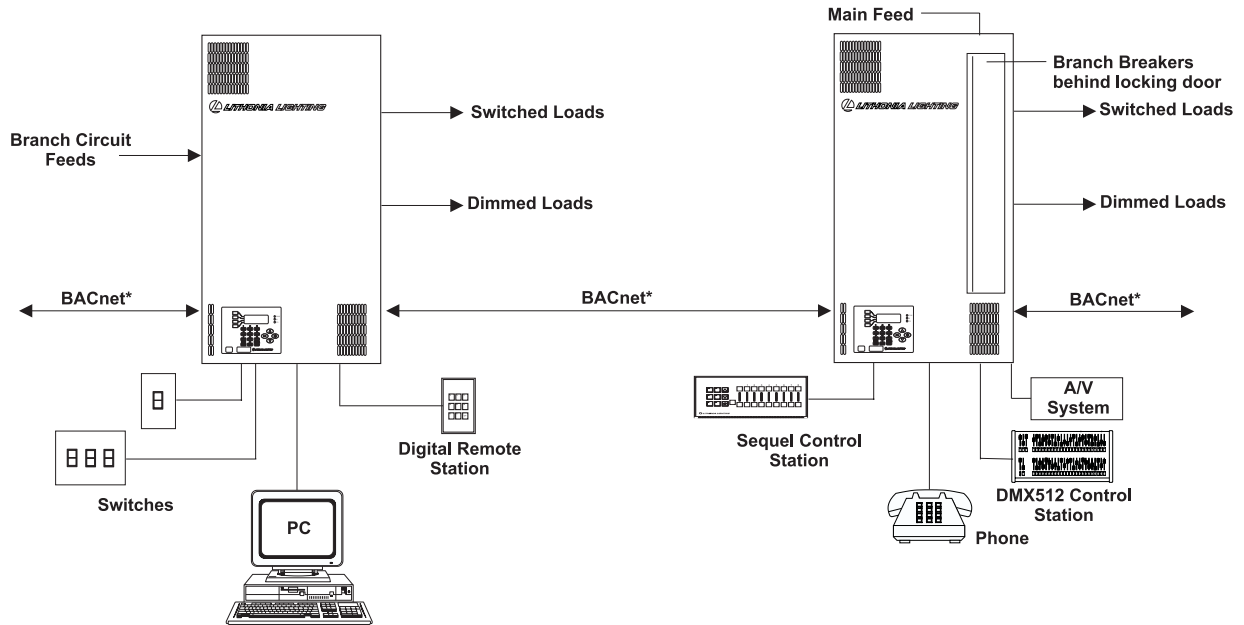
Series	Output quantity/type		Main feed option	Options
<b>SYES</b> Small enclosure, 2 modules max.	<b>_DB1</b> Qty. 120V 2KW dimmers with six 20A circuit breakers, six dimmers per module	<b>_LB6</b> Qty single-pole 30A relays @ 120, 230 and 277 volts, and 20A @ 347 volts. Four 347V, 20A circuits breakers. Eight low voltage dry contact inputs and eight 0-10VDC dimming outputs.	(blank) No main lugs, no main breaker	(blank) Panel ships as components consisting of enclosure, power modules and controller
<b>SYEM</b> Medium enclosure, 4 modules max.	<b>_DB2</b> Qty. 277V 3.5KW dimmers with four 20A circuit breakers, six dimmers per module	<b>_LB7</b> Qty single-pole 30A relays @ 120, 230 and 277 volts, and 20A @ 347 volts. Four 347V, 15A circuits breakers. Eight low voltage dry contact inputs and eight 0-10VDC dimming outputs.	<b>ML</b> Main lugs for 120V, 240V or 277V operation; requires 2 module positions; requires power modules with circuit breakers	<b>DMX</b> Dimming interface required for connection to DMX512 control
<b>SYEL</b> Large enclosure, 6 modules max.	<b>_L</b> Qty single-pole 30A relays @ 120, 230 and 277 volts, and 20A @ 347 volts. Eight low voltage dry contact inputs and eight 0-10VDC dimming outputs.	<b>DSO</b> Add to relay module to remove low voltage dry contact inputs and 0-10VDC dimming outputs.	<b>MB</b> Main breaker, 3 pole, specify # of amps, 100A maximum	<b>ISA</b> Three 16-bit ISA expansion slots
<b>SYESB</b> Small enclosure with breaker door, 2 modules max.	<b>_LB1</b> Qty single-pole 30A relays @ 120, 230 and 277 volts, and 20A @ 347 volts. Six 120V, 20A circuit breakers. Eight low voltage dry contact inputs and eight 0-10VDC dimming outputs.	<b>_S5BC</b> Intelligent Ballast Control module compatible with SIMPLY5 and DALI dimming ballasts. With power supply and controller for 3 ballast loops	<b>NBAR</b> 42 circuit neutral bar	<b>MODEM</b> Modem for remote dial-up access
<b>SYEMB</b> Medium enclosure with breaker door, 4 modules max.	<b>_LB2</b> Qty single-pole 30A relays @ 120, 230 and 277 volts, and 20A @ 347 volts. Four 277V, 20A circuit breakers. Eight low voltage dry contact inputs and eight 0-10VDC dimming outputs.	<b>_CB1</b> Qty. 120V constant breakers, six breakers per module		<b>PHONE</b> Modem for remote dial-up access and voice-prompted override (requires ISA option)
<b>SYELB</b> Large enclosure with breaker door, 6 modules max.	<b>_LB3</b> Qty single-pole 30A relays @ 120, 230 and 277 volts, and 20A @ 347 volts. Six 120V, 15A circuit breakers. Eight low voltage dry contact inputs and eight 0-10VDC dimming outputs.	<b>_CB2</b> Qty. 277V constant breakers, four breakers per module		<b>LEGACY</b> Allows control of legacy MiniPac, Sequel, and Max-Star dimmer cabinets
	<b>_LB4</b> Qty single-pole 30A relays @ 120, 230 and 277 volts, and 20A @ 347 volts. Four 277V, 15A circuits breakers. Eight low voltage dry contact inputs and eight 0-10VDC dimming outputs.			
			<b>Controller type</b>	
			<b>MLS</b> Stand-alone controller	
			<b>MLX</b> Network controller	
			<b>SCP</b> Secondary panel, less controller	

### Accessories

Order as a separate item.

- SYA SRE** Recess kit for small enclosures
- SYA MRE** Recess kit for medium enclosures
- SYA LRE** Recess kit for large enclosures

## SYSTEM ARCHITECTURE



\* RS-485 Arcnet 156KBS, Ethernet/IP, MSTP. Available with MLX only. Additional equipment may be needed.

## SYSTEM CONTROLLER OPTIONS

System Functions	MLS Controller	MLX Controller
<b>Relay Capacity (No Breakers)</b>	48 80 Total w/ Secondary Cabinet	48 96 Total w/ Secondary Cabinet
<b>Relay Capacity (With Breakers)</b>	40 60 Total w/ Secondary Cabinet	40 80 Total w/ Secondary Cabinet
<b>Dimmer Capacity</b>	30 36 Total w/ Secondary Cabinet	30 60 Total w/ Secondary Cabinet
<b>DMX512 Input</b>	DMX Channel-to-Output Configured via controller software	DMX Channel-to-Output Configured via controller software
<b>Scheduling</b>	100 schedules/unlimited events	100 schedules/unlimited events
<b>Analog Input</b>	YES	YES
<b>PC Support</b>	YES	YES
<b>Script Logic</b>	YES	YES
<b>Logging</b>	YES	YES
<b>Priority Logic</b>	YES	YES
<b>Network</b>	NO	YES
<b>Telephone Override</b>	YES, optional	YES, optional
<b>BACnet®</b>	NO	YES
<b>RS232</b>	YES	YES
<b>Modem</b>	YES, optional	YES, optional
<b>Sequel Stations</b>	YES	YES
<b>Digital Remotes</b>	YES	YES
<b>Legacy Dimmers</b>	YES, optional	YES, optional

## SYSTEM COMPONENTS



**Synergy Enclosures (SYE)**  
(Reference spec sheet SYE)

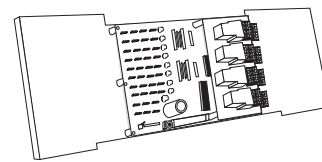
### Dimensions:

Shown in inches (millimeters)

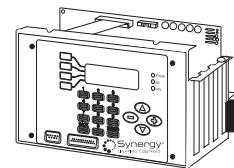
Small (SYES, SYESB): 21(533) H x 20(508) W x 6(152) D

Medium (SYEM, SYEMB): 34.5(876) H x 20(508) W x 6(152) D

Large (SYEL, SYELB): 48(1,219) H x 20(508) W x 6(152) D



**Synergy Power Modules (SYPM and SYPMB Series)**  
(Reference spec sheets SYPM 8L, SYPMB 6D, SYPMB CB, and SYPM S5BC)



**Synergy System Controller (SYSC)**  
(Reference spec sheets SYSC MLS and SYSC MLX)