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SIMPLY5 LIGHTING INTELLIGENCE

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SIMPLY5
LIGHTING INTELLIGENCE

ONE SYSTEM... INFINITE POSSIBILITIES

POWER MODULE OPTIONS

May be combined within the same enclosure to meet job site requirements.



RELAY MODULE

Eight single-pole relays with zero-cross switching, plus eight switch and two analog input terminals.



DALI CONTROL MODULE

Network controllers and power supplies for three DALI networks.



RELAYS WITH BREAKERS

Similar to relay module, with either six 120V, four 277V or four 347V branch circuit breakers.



BALLAST CONTROL MODULE

Eight channels of 0-10V DC dimming with integrated 20A relays for four-wire dimming ballasts. Available with 120V, 277V and 347V circuit breakers.



DIMMER MODULE

Six universal load digital dimmers suitable for 120V or 277V incandescent, fluorescent, low-voltage, neon, cold cathode and non-dim loads.



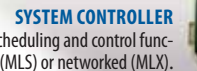
TAP FEED LUG OPTION

Allows several Synergy enclosures to share a single main feed up to 400A, three phase.



MULTI-POLE RELAYS

Up to four 30A contactors with either two or four poles each.



SYSTEM CONTROLLER

Provides local user interface, scheduling and control functions. Available in stand-alone (MLS) or networked (MLX).



DMX Theatrical Control
(Optional)



Telephone Interface
(Optional)



RS232 Interface
Local A/V system.



Laptop Connection
For programming and operation.



Controllable Breaker
Provides individual control of each circuit breaker and works with all standard Synergy controller and user interface options.



The Synergy® lighting control system offers flexible and scalable solutions that satisfy the requirements of both owners and occupants. The Synergy system integrates all aspects of lighting control, including low-voltage switching, architectural dimming, occupancy sensing and daylight harvesting into a single platform. A native BACnet® network allows Synergy to seamlessly integrate with Building Automation Systems (BAS).

- Flexible Control Choices
- Customized Functionality
- Maximum Expandability
- Maximum Energy Savings
- Energy Code Compliant
- Architectural Dimming
- Distributed Control
- Low-Voltage Switching
- Controllable Circuit Breakers
- Daylighting Controls



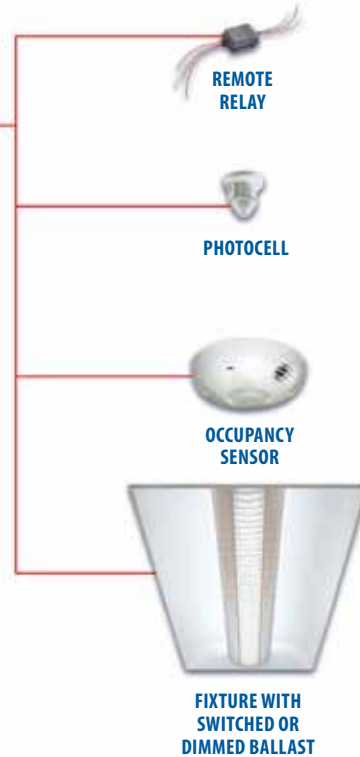
PRESET CONTROL
Four-, eight-, 12- and 16-channel master station with six preset lighting scenes.



DIGITAL REMOTE
One to nine buttons in a single gang. Optional wireless receiver for operation and programming of presets from hand-held transmitter.



DISTRIBUTED CONTROLS
Provides distributed control of switched or dimmed lighting fixtures. May be used stand-alone or as part of a fully integrated Synergy system.



SYSTEM ENCLOSURE FOR RELAYS AND DIMMERS
Three capacities, up to two, four or six power modules.



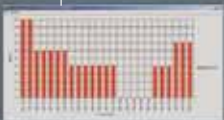
SYNERGY BACGATE
Gateway to link Synergy network to third-party and Lithonia legacy systems.



NATIVE BACNET
Integrates with BACnet compatible building automation and control systems. Standard interconnection is EIA RS-485 twisted pair wire bus, which can be extended between buildings with fiber optics, campuswide over Ethernet, or worldwide via the Internet.



(screen captures of Synergy CONFIG software)



Kwh Usage and Trending
Monitor kwh, trend and graph usage of lighting loads with this optional add-in to the Synergy CONFIG application.



Interactive Graphics
Monitor and control entire lighting system via virtual control panel screens created with simple on-board tools, or import graphic image backgrounds and floorplans to suit project requirements.

Synergy CONFIG Software
Configure, control and monitor Synergy lighting control panels from on site or remote locations via phone lines or WAN with this easy-to-use Windows® application.



www.SynergyLightingControls.com

SY Synergy® System



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

System Features
Combines the most popular aspects of lighting automation

with full-featured low-voltage switching and architectural dimming functions.
Switching and dimming functions may be controlled manually or scheduled on a weekly or calendar date basis. Functions may be set up using the integral LCD alphanumeric display and keypad or through the use of a personal computer with optional SYSW CONFIG software.
Panels can operate individually as stand-alone lighting controllers or optionally in a

network configuration with distributed intelligence. A choice of system controllers allows customization to best meet the requirements and budget of each project.
Synergy systems utilizing the MLX controller are native BACnet® lighting control devices. This provides easy, seamless integration with other native BACnet building automation systems without the need for gateways or other clumsy network interfaces.

Provides capacity for a maximum of 48 relays or 30 dimmers per enclosure. Enclosures can operate in a master/secondary configuration, providing control of up to 96 outputs from a single controller. Relays and dimmers are each rated for control of one lighting circuit at the listed voltage.
Listings
UL Listed to U.S. and Canadian safety standards. California Title 24 certified.

ORDERING INFORMATION

Example: SYELB 16RB1 18DB1 MLX NBAR DMX

Series	Output-input quantity/type ¹		
SYES	Small enclosure, two modules maximum	_DB1 Qty. 120V, 2KW dimmers with six 20A circuit breakers, six dimmers per module	_RB4 Qty. single pole, 120/230/277/347V 30A relays, four 277V - 15A circuit breakers, eight relays per module, low-voltage inputs provided
SYEM	Medium enclosure, four modules maximum	_DB2 Qty. 277V, 3.5KW dimmers with four 20A circuit breakers, six dimmers per module	_RB5 Qty. single pole, 120/230/277/347V 30A relays, four 347V - 20A circuit breakers, eight relays per module, low-voltage inputs provided
SYEL	Large enclosure, six modules maximum	_DB3 Qty. 120V, 1.5KW dimmers with six 15A circuit breakers, six dimmers per module	_RB6 Qty. single pole, 120/230/277/347V 30A relays, four 347V - 15A circuit breakers, eight relays per module, low-voltage inputs provided
SYESB	Small enclosure with breaker door, two modules maximum	_DB4 Qty. 277V, 3.3KW dimmers with four 15A circuit breakers, six dimmers per module	_RDSO Qty. single pole, 120/230/277/347V 30A relays, eight relays per module, no low-voltage inputs
SYESB	Small enclosure with breaker door, two modules maximum	_DB5 Qty. 120V, 2KW dimmers with four 20A - 64K AIC circuit breakers, six dimmers per module	_RB1DSO Qty. single pole, 120/230/277/347V 30A relays, six 120V - 20A circuit breakers, eight relays per module, no low-voltage inputs
SYEMB	Medium enclosure with breaker door, four modules maximum	_R Qty. single pole, 120/230/277/347V 30A relays, eight relays per module, low-voltage inputs provided	_RB2DSO Qty. single pole, 120/230/277/347V 30A relays, four 277V - 20A circuit breakers, eight relays per module, no low-voltage inputs
SYELB	Large enclosure with breaker door, six modules maximum	_RB1 Qty. single pole, 120/230/277/347V 30A relays, six 120V - 20A circuit breakers, eight relays per module, low-voltage inputs provided	_RB3DSO Qty. single pole, 120/230/277/347V 30A relays, six 120V - 15A circuit breakers, eight relays per module, no low-voltage inputs
		_RB2 Qty. single pole, 120/230/277/347V 30A relays, four 277V - 20A circuit breakers, eight relays per module, low-voltage inputs provided	
		_RB3 Qty. single pole, 120/230/277/347V 30A relays, six 120V - 15A circuit breakers, eight relays per module, low-voltage inputs provided	

Output-input quantity/type (continued) ¹	Controller type	Main feed options	Options
_RB4DSO Qty. single pole, 120/230/277/347V 30A relays, four 277V - 15A circuits, eight relays per module, no low-voltage inputs	MLX Network controller	(blank) No tap feed lugs, no main breaker	(blank) Panel ships as components consisting of enclosure, power modules and controller
_RB5DSO Qty. single pole, 120/230/277/347V 30A relays, four 347V - 20A circuit breakers, eight relays per module, no low-voltage inputs	MLS Stand-alone controller	ML Tap-feed lugs for powering up to four cabinets from a single main feed. Requires two module positions. Requires power modules with circuit breakers.	DMX Dimming interface required for connection to DMX512 control
_RB6DSO Qty. single pole, 120/230/277/347V 30A relays, four 347V - 15A circuit breakers, eight relays per module, no low-voltage inputs	SCP Secondary panel, less controller	MB Main breaker, 3 pole, specify number of amps	PHONE Telephone interface for voice-prompted override and remote modem access (requires ISA option)
_CB1 Qty. 120V constant breakers, six breakers per module		NBAR 42-circuit neutral bar	LEGACY Allows control of legacy MininPac®, Sequel® and MaxStar® dimmer cabinets
_CB2 Qty. 277V constant breakers, four breakers per module			RS2324P Four-port RS232 expansion card
_DALI DALI module with power supply and controller for three-DALI loops			

ADDITIONAL INFORMATION For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES	
ORDER SEPARATELY	
SYA SRE	Recess kit for small enclosures
SYA MRE	Recess kit for medium enclosures
SYA LRE	Recess kit for large enclosures
SYNERGY DRAWINGS	Synergy project installation drawings

Notes
1 Specify quantity in blank.

SYE Enclosures

Intended Use

Provides housing and electrical support for the relay power modules, dimmer power modules and system controller in a Synergy® lighting control application.

System Features

Synergy system enclosures are shipped from factory stock in three sizes, accommodating either two, four or six power modules. The enclosures are fabricated from cold rolled steel, are designed for surface wall

mounting and carry a NEMA 1 electrical rating.

An optional recessed mounting kit permits the enclosure to be flush-mounted in a 6" thick wall.

All enclosures are shipped with a factory-installed power supply with input terminals provided for either 120V, 240V or 277V supply voltage. Enclosures intended for use with dimmer modules are supplied with an internal thermostatically controlled cooling fan and a cover with

hinged locking door to cover the power module mounted circuit breakers.

A variety of main lug, neutral bar and main breaker options are available to configure Synergy as a busse three-phase or single-phase dimming/switching panel.

Listings

UL Listed to U.S. and Canadian safety standards.



Example: SYEM 120/277

ORDERING INFORMATION

Series

- SYES Small enclosure; two power module spaces. No circuit breaker door.
- SYEM Medium enclosure; four power module spaces. No circuit breaker door.
- SYEL Large enclosure; six power module spaces. No circuit breaker door.
- SYESB Small enclosure; two power module spaces. Provision for circuit breakers.¹
- SYEMB Medium enclosure; four power module spaces. Provision for circuit breakers.
- SYELB Large enclosure; six power module spaces. Provision for circuit breakers.

Voltage

120/277 120/230/277V, 50Hz or 60Hz operation

ADDITIONAL INFORMATION

For additional product information, www.synergylightingcontrols.com.

ACCESSORIES
ORDER SEPARATELY

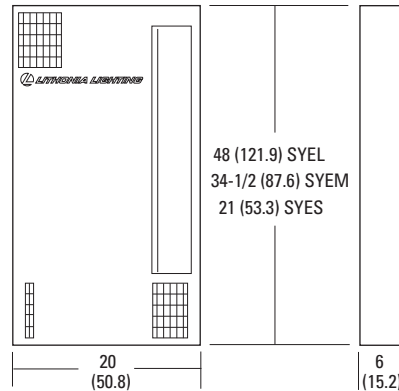
SYA SRE	Recess kit for small enclosures
SYA MRE	Recess kit for medium enclosures
SYA LRE	Recess kit for large enclosures
SYPMB NBAR	Neutral bar assembly. Requires one module space (see page 753).
SYPMB MB_NBAR	Main breaker assembly with neutral bar, 3-pole. Specify capacity in amps (30, 40, 50, 60, 70, 80, 90, 100). Requires one module space (see page 753).
SYPMB ML	Main lug assembly, 3 position. Requires SYPMB MN (see page 753).
SYPMB MB_ML	Main breaker assembly with main lug. Specify capacity in amps (30, 40, 50, 60, 70, 80, 90, 100). Requires one module space (see page 753).

SHIPPING WEIGHT

Small enclosure	30 lbs. (14 kg)
Medium enclosure	40 lbs. (18 kg)
Large enclosure	50 lbs. (23 kg)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

Add 1-1/2 (3.8) to height and width for recessed version.



Notes

1 Maximum one dimmer module.

SYPM 8R

Relay Module



Intended Use
Used in conjunction with system enclosure and controller to provide manual and automatic on/off control of all types of lighting loads, and 0-10V dimming control of compatible four-wire fluorescent and non-dim loads. Combine with other Synergy® system SYPM power modules to create a complete integrated lighting control solution for any application.

Electrical
Relays rated 30A @277V ballast, HID; 20A @347V ballast

and 20A @120V tungsten. 18,000 amps SCCR @277V.
Relays individually replaceable.

System Features
Modules include eight 30A relays for 120V, 230V, 277V and 347V applications. Modules may be ordered with optional 15A or 20A branch circuit breakers. Unique zero-cross switching technology minimizes the destructive effects of switching large high-inrush loads, such as electronic fluorescent and HID. Relays feature normally closed latching contacts,

which is ideal for emergency lighting applications.
Modules are standard with a pilot light output for each relay, eight low-voltage contact switch inputs and two analog inputs for photocells. Each low-voltage input is suitable for dry contact switches or occupancy sensors. Each 0-10V output may be used to control up to 50 compatible four-wire ballasts. All inputs are fully configurable through the use of a system controller to work with a wide variety of input devices and control any

combination of system relays and dimmers. Once configured, all module settings are stored locally and the module will continue to operate in fail-safe mode even if the system controller is removed from the system.

The DSO option removes all low-voltage, analog and contact closure inputs for applications where only digital control using Synergy digital stations is required and 0-10V dimming is not needed.

Listings
UL Listed to U.S. and Canadian safety standards.

Example: SYPM 8R

ORDERING INFORMATION

Series	Type	Circuit breakers	Options
SYPM Module for use with external circuit breakers	8R Relay module with eight single-pole 30A relays for 120V, 230V, 277V and 347V operation. Includes low-voltage inputs and 0-10V dimming.	(blank) No circuit breakers	DSO Digital control only. No low-voltage inputs or 0-10V dimming.
SYPMB Module with circuit breakers		B1 Six 20A, 120V, 10KAIC breakers B2 Four 20A, 277V, 14KAIC breakers B3 Six 15A, 120V, 10KAIC breakers B4 Four 15A, 277V, 14KAIC breakers B5 Four 20A, 347V, 14KAIC breakers B6 Four 15A, 347V, 14KAIC breakers	

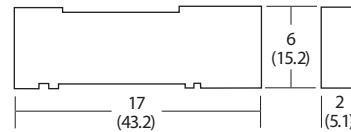
ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

SHIPPING WEIGHT

Without breakers	4 lbs. (1.9 kg)
With breakers	9 lbs. (4.1 kg)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



PRODUCT INFORMATION

SYPMB 6D

Line-Voltage Dimmer Module



Intended Use
Used in conjunction with system enclosure and controller to provide manual and automatic on/off and line-voltage dimming control of a wide variety of lighting loads. Combine with other Synergy® system SYPM power modules to create a complete integrated lighting control solution for any application.

System Features
Modules include six 20A line-voltage dimmers with integral 15A or 20A circuit breakers and are available for 120V, 230V and 277V applications. Each dimmer is equipped with an air-gap relay and an architectural-grade toroidal filter.
All digital design ensures smooth, dependable perfor-

mance without field calibration. Unique combination of analog circuitry and digital signal processing techniques minimize the effects of poor power quality and prevent noticeable flicker and drift.
Individual dimmer response curves are field configurable to accommodate most lamp and ballast types via the system controller. Once

configured, all module settings are stored locally and the module will continue to operate in fail-safe mode even if the system controller is removed from the system.

Listings
UL Listed to U.S. and Canadian safety standards.

Example: SYPMB 6DB1

ORDERING INFORMATION

Series	Dimmers/Circuit breakers/voltage	
SYPMB	Dimmers 6D Six dimmers per module	Circuit breakers/ voltage B1 Six integral 20A, 120V, 2 KW dimmers w/ 10KAIC breakers B2 Four integral 20A, 277V, 3.5 KW dimmers w/ 14KAIC breakers B3 Six integral 15A, 120V, 1.5 KW dimmers w/ 10KAIC breakers B4 Four integral 15A, 277V, 3.3 KW dimmers w/ 14KAIC breakers B5 Four integral 20A, 120V, 2 KW dimmers w/ 65KAIC breakers

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

SHIPPING WEIGHT

22 lbs. (10 kg)

Intended Use

Used in conjunction with system enclosure and power modules equipped with branch circuit breakers to facilitate connection of an individual Synergy® cabinet to a three-phase, four-wire or single-phase, three-wire main feed.

System Features

Modules include a 42-circuit neutral bar rated for a #6 to 2/0 AWG main feed and #14 to #4 AWG branch neutral conductors. The neutral bar can be used in 120V, 277V or 347V applications.

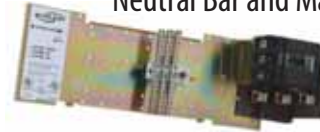
The optional main breaker is available in capacities up to 100A and is rated for 120V/240V, 120V/208V and 277V/480V feeds and conductor sizes up to 2/0 AWG.

Listings

UL Listed to U.S. and Canadian safety standards.

SYPMB NBAR SYPMB MB_NBAR

Neutral Bar and Main Breaker Modules



Example: SYPMB NBAR

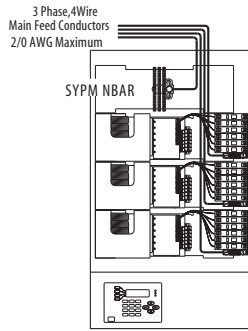
ORDERING INFORMATION

Series	Main breaker	Neutral bar
SYPMB ¹	(blank) No main breaker MB Main breaker, 3 pole, specify capacity in amps : 30, 40, 50, 60, 70, 80, 90 or 100	NBAR 42-circuit neutral bar

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

Drawing shows typical wiring only. Refer to product documentation for specific wiring details.



18 Dimmer, 3 Phase, 4 Wire Example

Notes

1 Requires SYE enclosure and SYSC MLS or MLX controller.

PRODUCT INFORMATION

Intended Use

Used in conjunction with system enclosures and power modules equipped with integrated branch circuit breakers to facilitate connection of up to four Synergy® cabinets to a single three-phase,

four-wire or single-phase, three-wire main feed.

System Features

ML modules include a three-position power distribution block and optional main breaker. MN modules include a single-position power

distribution block and a 42-circuit neutral bar. All distribution positions include one main lug rated for a single #4 AWG to 500 kcmil conductor and four tap lugs rated for a single #14 to 2/0 AWG conductor each.

One ML module and one MN module are required for each application. All units are rated for 120V/240V, 120V/208V and 277V/480V applications.

Listings

UL Listed to U.S. and Canadian safety standards.

SYPMB ML SYPMB MB_ML SYPMB MN

Tap Feed Power Modules



Example: SYPMB ML

ORDERING INFORMATION

Series	Main breaker	Distribution lugs
SYPMB ¹	(blank) No main breaker MB Main breaker, 3 pole, specify capacity in amps: 30, 40, 50, 60, 70, 80, 90 or 100	ML Phase conductor tap feed lugs, 3 position MN Neutral conductor tap feed lug with 42-circuit neutral bar

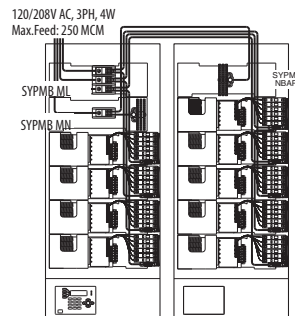
ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

SHIPPING WEIGHT

Without main breaker	4 lbs. (1.8 kg)
With main breaker	8 lbs. (3.6 kg)

Drawing shows typical wiring only. Refer to product documentation for specific wiring details.



54 Dimmer, Phase, 4 Wire Tap Feed Example

Notes

1 Requires SYE enclosure and SYSC MLS or MLX controller.

SYA 2POLE SYA 3POLE SYA 4POLE

Multi-Pole Contactor



Intended Use
Synergy® two-, three- and four-pole lighting contactors install in a Synergy enclosure via the SYPM PLATE mounting plate accessory and provide integral control of multi-phase lighting loads.

Electrical
Field replaceable contacts and coils.
25A contact rating (2POLE version).
60A contact rating (3POLE version).
30A contact rating (4POLE version).

System Features
Suitable for 120V/208V, 120V/240V or 277V/480V branch circuit control. Up to four contactors can be installed per SYPM PLATE. One relay from an SYPM 8R, SYPM 8H or SYPM 8F power module is required to control the contactor coil for each lighting load controlled.

For example, if four, 2-pole contactors are used for individual control of four, 2-pole lighting loads, then four relays from an SYPM 8R, SYPM 8H or SYPM 8F power module will be required.
Listings
UL recognized components, CSA Certified.

ORDERING INFORMATION

Example: SYA 4POLE 120

Series	Contactors ¹	Voltage
SYA	2POLE 2 poles, 25A contacts 3POLE 3 poles, 60A contacts 4POLE 4 poles, 30A contacts	120 120V 277 277V

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES

ORDER SEPERATELY

SYPM PLATE Mounting plate for multi-pole contactors. Maximum of four contactors can be mounted per SYPM PLATE.

Notes

¹ One or more relays from an SYPM 8R power module will be required to control the contactor coil(s).

SYPM DALI

DALI Fluorescent Control Power Module



Intended Use
Used in conjunction with system enclosure and SYSC MLX controller to provide manual and automatic control of compatible devices on a DALI network. Combine with other Synergy system SYPM power modules to create a complete integrated lighting control solution.

System Features
Module includes network controllers and power supplies for three DALI networks (loops) of up to 64 devices each. Connected DALI devices may be configured via the Synergy system controller for status monitoring and prioritized control by any Synergy user interface, timeclock schedule or graphical workstation.

Listings
UL Listed to U.S. and Canadian safety standards.

ORDERING INFORMATION

Example: SYPM DALI

Series	Contactors ¹	Voltage
SYPM DALI	Network controller and power supply for three DALI loops ¹	

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

SHIPPING WEIGHT

4 lbs. (1.8 kg)

Notes

¹ Requires SYE enclosure and SYSC MLS or MLX controller.

SYBP



Intended Use

Ideal for applications requiring circuit level remote control or lighting automation. Combines the powerful capabilities of the Synergy® lighting control system with the familiar footprint of a standard circuit breaker panel. This unique concept provides fully automated lighting control without the need to install both a relay panel and a branch circuit breaker panel. Also requires less wall space and will often provide a lower installed cost.

System Features

Scheduling: Using integral

astronomic clock capability, lighting can be fully automated to conform to a rotating seven-day schedule. Astronomic feature provides dusk/dawn operation, eliminating the need for photocells. Holiday schedule allows entry of up to 32 periods. Blink-warn feature can blink lights automatically prior to a scheduled off.

Overrides: Use Synergy digital remote wall stations or distributed controllers to provide manual control of any combination of breakers, and to override scheduled events. Each wallstation can

provide up to nine buttons with integral LED status indicators. A single four-wire cable is all that is required for connection of up to 60 digital wallstations or distributed controllers. Optional switch input card also allows the use of traditional low-voltage switches and other dry contact closure inputs.

Networking: SYBPC MLX panels can be networked together, and with other Synergy switching and dimming panels to form a building-wide integrated lighting control system. Networked systems offer the flexibility of

centralized control, monitoring and programming via a PC and the SYSW CONFIG MLX controller integrates with building automation systems via native BACnet® protocol.

Capacity: Up to 42 circuits with 100A, 225A or 400A bus. See branch circuit breaker selection table below. Compatible with non-controllable circuit breakers.

Listings

UL Listed to U.S. and Canadian safety standards.

Example: SYBP42 P2 225 ML B SS MLX PHONE

ORDERING INFORMATION						
Series	Voltage	Maximum rating	Main feed options ²	Mounting		
SYBP18 18-pole capacity ¹	P1 120V/208V	100 100A	ML Main lug	T Top feed		
SYBP30 30-pole capacity ¹	P2 277V/480V	225 225A	MB100 100A main breaker	B Bottom feed		
SYBP42 42-pole capacity ¹		400 400A	MB225 225A main breaker MB400 400A main breaker			
Door	Controller	Options				
SS Standard surface	MLX Network system controller	DMX	Interface for connection to DMX512 control ³			
SF Standard flush	MLS Stand-alone system controller	PHONE	Telephone interface ⁴			
	SCP Secondary panel, less controller	LVIN	Sixteen low-voltage switches and one analog input			
		RS2324P	Four-port RS-232 expansion card			
		HFD	Series-rated main breaker for use with GHB or GHBQRSP branch circuit breakers to achieve 65K AIC rating			

ADDITIONAL INFORMATION

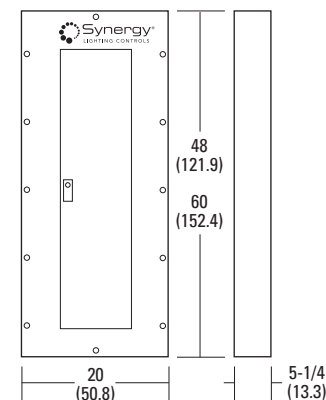
For additional product information, visit www.synergylightingcontrols.com.

BRANCH CIRCUIT BREAKERS			
ORDER SEPARATELY			
CONTROLLABLE BREAKERS		STANDARD BREAKERS (NON-CONTROLLABLE)	
SYBPB BABRS1020	120V, 20A, 1 POLE	SYBPB BAB1020	120V, 20A, 1 POLE
SYBPB BABRS1030	120V, 30A, 1 POLE	SYBPB BAB1030	120V, 30A, 1 POLE
SYBPB BABRS2020	120V, 20A, 2 POLE	SYBPB BAB2020	120V, 20A, 2 POLE
SYBPB BABRS2030	120V, 30A, 2 POLE	SYBPB BAB2030	120V, 30A, 2 POLE
SYBPB GHRSP1020	277V, 20A, 1 POLE	SYBPB GHB1020	277V, 20A, 1 POLE
SYBPB GHRSP2020	277V, 20A, 2 POLE	SYBPB GHB1030	277V, 30A, 1 POLE
SYBPB GHRSP1030	277V, 30A, 1 POLE	SYBPB GHB2020	277V, 20A, 2 POLE
SYBPB QRSP2030	277V, 30A, 2 POLE	SYBPB GHB2030	277V, 30A, 2 POLE

NOTE: Consult factory for additional standard (non-controllable) breaker sizes.

CONTROLLER COMPARISON		
SYSTEM FUNCTION	SYBPC MLS CONTROLLER	SYBPC MLX CONTROLLER
Controllable breaker capacity:	42126 total w/ secondary cabinets	42126 total w/ secondary cabinets
Dimmer capacity	60 total w/ secondary cabinets	60 total w/ secondary cabinets
DMX512 input	DMX channel-to-output configured via controller software	DMX channel-to-output configured via controller software
Scheduling	100 schedules/unlimited events	100 schedules/unlimited events
Analog input	1	1
PC support	Yes	Yes
Script logic	Yes	Yes
Logging	Yes	Yes
Priority logic	Yes	Yes
Network	No	Yes
Telephone override	Yes, optional	Yes, optional
BACnet®	No	Yes
RS232	Yes	Yes
Modem	Yes, optional	Yes, optional
Sequel stations	Yes	Yes
Digital remotes	Yes	Yes

Drawing shows typical wiring only. Refer to product documentation for specific wiring details.



Notes

- Order branch circuit breakers separately. See branch circuit breakers table below.
- Consult factory for additional main breaker selections and interrupt ratings.
- For house lighting control only.
- Not available with SCP controllers.

SYSC



Intended Use
Mounts in a Synergy® SYE enclosure. Provides user interface, display, clock and programmable logic for a Synergy lighting control system enclosure and a means to set up lighting control functions, including manual switching, manual and preset dimming, schedules, astronomical time control, photocell switching and daylighting.

System Features
Constructed as a plug-in chassis to enhance initial installation and service-ability. Used to set up and save operational features of the system. Provides support for external control devices:

SQCS Architectural Preset Control Station, SYRS Digital Remote Wallstation, SYRS EXT 0-10VDC Wallstation Distributed Controller, SYRS EXTDS Bi-level Distributed Controller and DEQ LC Distributed Controller.

User interface is designed for simple operation using the soft key format popular on automated teller machines. Large back-lit display provides text-based prompting and feedback for menu navigation as well as status, diagnostic information and alarms.

Astronomic feature built into Synergy's internal clock will calculate sunrise and sunset

times for use in lighting schedules. The controller also can read values from accessory photocells and provide automatic switching or dimming of lighting based on the ambient light level.

See the matrix below for additional features and capacities specific to the controller type selected.

SYSC BACGATE DMX: Adds the ability to monitor and override third-party lighting control equipment from a Synergy system. Typically used in retrofit applications to allow Synergy's state-of-the-art graphical interface software or scheduling

capabilities to be used with a previously installed system. The BACGATE can be used as an interface to Lutron Grafik 6000®, GE TLC®, and Lithonia or PCI SwitchKeeper® and WatchKeeper® families of systems. The DMX feature provides the ability to control two universes (1024 address) of DMX devices.

The SYSC BACGATE Network with SYSC MLX controllers, is a BACnet® compliant device, requires only one interface per system, requires and mounts into a dedicated SYES 120/277 enclosure and requires a factory-authorized start-up.

ORDERING INFORMATION

Example: SYSC MLX

Series	Controller ¹	Options
SYSC	System controller for Synergy panels	MLS Stand-alone system controller ¹
SYSC BACGATE DMX	Network gateway for third-party systems ³	MLX Network system controller ¹
		ISA Three 16-bit ISA expansion slots ¹
		PHONE Telephone interface for voice-prompted override and remote modem access (requires ISA option) ¹
		DMX Theatrical dimming interface, required for connection to DMX512 control signal ²
		LEGACY Allows control of one complete network (255 dimmers) of legacy MiniPac®, Sequel® and MaxStar® dimmer cabinets. Replaces master controller on existing systems. ¹
		RS2324P Four-port RS-232 expansion card ¹

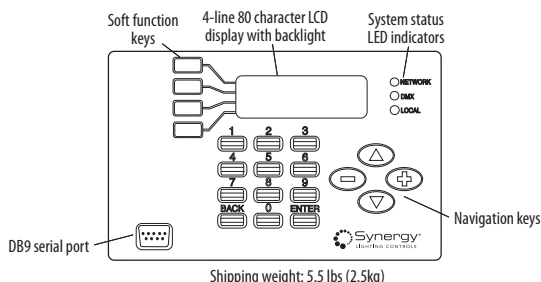
ADDITIONAL INFORMATION For additional product information, visit www.synergylightingcontrols.com.

FEATURES SELECTION MATRIX

SYSTEM FUNCTION	MLC CONTROLLER	MLX CONTROLLER
Relay Capacity (No breakers)	48	48 (96 total with secondary cabinet)
Relay Capacity (With breakers)	40	40 (80 total with secondary cabinet)
Dimmer Capacity	30	30 (60 total with secondary cabinet)
DMX512 Input	DMX channel-to-output configured via hardware settings	DMX channel-to-output configured via controller software
Scheduling	11 schedules, 99 events	100 schedules, unlimited events
Analog Inputs	Yes	Yes
PC Support	Yes	Yes
Script Logic	No	Yes
Logging	No	Yes
Priority Logic	No	Yes
Ethernet Network	No	Yes
ARCNET Network	No	Yes
Telephone Override	No	Yes, optional
BACnet®	No	Yes
RS232	Yes	Yes
Modem	Yes, optional	Yes, optional
Sequel® Stations	Yes	Yes
Legacy Dimmers	No	Yes, optional
Digital Remotes	Yes	Yes

ACCESSORIES

ACCESSORIES	ORDER SEPARATELY
SYA SKIT	Permits two SYE enclosures to operate with a single MLX or MLS controller.
SYSW CONFIG	Windows® configuration software and cable (page 759).
SYA CABLEA4	Class 2, four-conductor, plenum-rated network cable (page 761).
SYA CABLES2	Lithonia plenum-rated RS485 network cable (page 761).
SYA SKIT DMX	Provides DMX only operation of local Synergy loads. (No local MLX or MLS controller.)
SYA M1 ARC FST	Fiber optic hub to connect one EIA-485 twisted pair and one duplex fiber optic segment. MLX only.
SYA M1 ARC FST 2	Fiber optic hub to connect one EIA-485 twisted pair and two duplex fiber optic segments. MLX only.
SYA ETHERNET SWITCH 5 PORT	Network switch to connect up to (5) 10BASE-T/100 BASE-TX compliant Ethernet networks. MLX only.
SYA M1 ARC ARC	Network repeater required to create Synergy RS-485 ARCNET network over 2000 feet in length. MLX only.
SYA ROUTER	Native BACnet router to connect a Synergy RS485 ARCNET network to an Ethernet LAN. MLX only.
LSCC 2S12C P25 DMX	Two-scene, 12 channel DMX control console w/25 foot control cable.
LSCC 2S24C P25 DMX	Two-scene, 24 channel DMX control console w/25 foot control cable.
LSCC 2S36C P25 DMX	Two-scene, 36 channel DMX control console w/25 foot control cable.
LSCC PR DMX	Single gang, plug-in receptacle to connect to DMX network.



Notes

- 1 Not available on SYSC BACGATE.
- 2 DMX option standard on SYSC BACGATE.
- 3 Consult factory when ordering SYSC BACGATE for additional system requirements.

PRODUCT INFORMATION

Intended Use

Provide manual dimming and preset lighting control for architectural dimming applications. Offered in a variety of styles and architectural finishes suitable for virtually any application. May be daisy-chained together with SYRS digital remote wallstations and distributed controllers for multi-location control.

System Features

Functions: Master raise and lower buttons adjust the intensity of all lights dimmed from the station. Channel raise and lower buttons adjust the intensity level of individual channels. LED bar graph displays intensity level. Select button saves presets and fade time is adjustable for each preset scene. Preset button saves and activates presets. Off function turns

off all channels. Integral dry contact closure interface allows access to the 16 presets, master raise/lower, and off functions for A/V systems and auxiliary equipment.

Installation

4- and 8-channel stations mount in Lithonia #SQCS 5GB or RACO 699 five-gang back-box; 12- and 16-channel stations mount in Lithonia #SQCS 8GB backbox. Stations

connect to a Synergy® system controller (page 756) via the four-wire SYA cable A4 control station network cable (page 761) which can be shared by up to 60 SQCS, SYRS (page 758) and DEQLC devices per system controller.

Classification: Class 2 low-voltage device.

SQCS

Digital Networked Preset Master Control Station



Example: SQCS 6P 4C BJ4 TR

ORDERING INFORMATION

Series	Number of presets	Number channels	Finish	Wallplate
SQCS Sequel control station	6P 6 presets	4C 4 channels	BJ4 Brushed stainless steel, black buttons	SD Solid
		8C 8 channels	WC2 Painted white, white buttons ¹	TR Translucent
		12C 12 channels	IE3 Painted ivory, ivory buttons ¹	
		16C 16 channels	BL4 Painted black, black buttons ¹	
			BF4 Polished brass, black buttons ¹	

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES	
ORDER SEPARATELY	
SQCS 5GB	5-gang backbox for 4-channel and 8-channel stations
SQCS 8GB	8-gang backbox for 12-channel and 16-channel stations
SQRSI	Contact closure network device to connect SQRS buttons or A/V equipment
SYNERGY ENGRAVING SERVICES	Engraved buttons
SYA CABLEA4	Control station network wire
SQCS PE	Portable console for Sequel stations (PE8 or PE16)
SQCS RE	Recessed NEMA 1 enclosure for Sequel stations (RE8 or RE16)
SQCS PR	Receptacle to connect portable console to A4 network wire

DIMENSIONS				
Dimensions are shown in inches (centimeters) or pounds (kilograms) unless otherwise noted.				
SERIES	WIDTH	THICKNESS	HEIGHT	WEIGHT
SQCS 4C	10-1/8 (25.7)	1/4 (0.6)	4-5/8 (11.7)	2-1/2 (1.13)
SQCS 8C	10-1/8 (25.7)	1/4 (0.6)	4-5/8 (11.7)	2-1/2 (1.13)
SQCS 12C	15-1/2 (39.4)	1/4 (0.6)	4-5/8 (11.7)	4 (1.8)
SQCS 16C	15-1/2 (39.4)	1/4 (0.6)	4-5/8 (11.7)	4 (1.8)

Notes

¹ Additional delivery time and/or cost may apply.

PRODUCT INFORMATION

Intended Use

Activates control functions in conjunction with the Sequel MiniPac® dimming system or the Sequel IDC wallbox dimming system.

Installation

Installation: Mounts to a Synergy SYRS 1GR box or 2"-wide, single-gang switch box.

System Features

Operation: Functions include preset recall, channel raise/lower, master raise/lower and off.

Classification: Class 2 low-voltage device.

SQRS

Architectural Remote Station



Example: SQRS2S BJ4

ORDERING INFORMATION

Series/Number of buttons	Finish																
<table border="1"> <thead> <tr> <th>Series</th> <th>Number of buttons</th> </tr> </thead> <tbody> <tr> <td>SQRS 1S</td> <td>1 button</td> </tr> <tr> <td>2S</td> <td>2 buttons</td> </tr> <tr> <td>3S</td> <td>3 buttons</td> </tr> <tr> <td>4S</td> <td>4 buttons</td> </tr> <tr> <td>5S</td> <td>5 buttons</td> </tr> <tr> <td>6S</td> <td>6 buttons</td> </tr> <tr> <td>9S</td> <td>9 buttons</td> </tr> </tbody> </table>	Series	Number of buttons	SQRS 1S	1 button	2S	2 buttons	3S	3 buttons	4S	4 buttons	5S	5 buttons	6S	6 buttons	9S	9 buttons	BJ4 Brushed stainless steel, black buttons
	Series	Number of buttons															
	SQRS 1S	1 button															
	2S	2 buttons															
	3S	3 buttons															
	4S	4 buttons															
	5S	5 buttons															
6S	6 buttons																
9S	9 buttons																
	WC2 Painted white, white buttons ¹																
	IE3 Painted ivory, ivory buttons ¹																
	BL4 Painted black, black buttons ¹																
	BF4 Polished brass, black buttons ¹																

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES	
ORDER SEPARATELY	
SYRS 1GR	1-gang plaster ring
SYNERGY ENGRAVING SERVICES	Engraved buttons

DIMENSIONS				
Dimensions are shown in inches (centimeters) or pounds (kilograms) unless otherwise noted.				
SERIES	WIDTH	THICKNESS	HEIGHT	WEIGHT
SQRS	2-7/8 (7.3)	1/4 (0.6)	4-5/8 (11.7)	1/2 (0.2)

Notes

¹ Additional delivery time and/or cost may apply.

PRODUCT INFORMATION

SYRS

Digital Remote Station



Intended Use
A microprocessor-based digital wallstation which provides a convenient means to add pushbutton controls for on/off, preset, raise/lower, partition control or other user interface to a Synergy® lighting control system. Standard infrared receiver for operation and programming of station functions from an accessory SYWR HHP wireless hand-held remote programmer.

Use the EXT option to provide daylight harvesting. For networked distributed control, the SYRS can provide local on/off, manual dimming and automated daylight dimming control. It also allows step-dimming control of RT5™ or similar fluorescent fixtures equipped with step-dimming ballasts, fluorescent fixtures wired for inboard/outboard

switching or two independent lighting zones.

The SYRS 2G KEY contains a local override key switch, a maximum of nine buttons and a self-disabling keyswitch. This is ideal for applications requiring an SYRS installed in public areas such as atriums, hallways or secure areas. The SYRS 2G (without the KEY option) is available with 10, 12, 14, 16, 18 or 20 buttons.

Installation
The SYRS mounts in a standard one-gang deep backbox. Stations connect to a Synergy system controller via the four-wire SYA CABLEA4 control station network. Local switching of loads is provided by Sensor Switch Series power pack(s).

System Features
Standard stations are single-gang with screwless appearance and are available with one to nine buttons in a variety of painted and metallic finishes. The EXT option adds two 0-10V dimming outputs compatible with four-wire electronic dimming ballasts, two switched outputs, one 0-10V dimming photocell input and one occupancy sensor input. The photocell is calibrated at the SYRS station eliminating the need to climb a ladder for adjustments.

When connected to a Synergy system, all station buttons, inputs and outputs are fully programmable from a Synergy controller or software, and are fully accessible to BACnet® building automation systems (MLX controller only). This allows daylight harvesting and dimming to be easily

integrated into the building control system, time schedule, dimming preset or progressive load-shedding strategy.

SYRS electronics are fully enclosed in a molded housing for protection. SYRS button caps can be engraved with labels having up to two lines of text. Button caps are captive which ensures the caps will resist accidental removal. Stations include button caps with and without an integral LED indicator to suit a variety of applications.

If network communication with the Synergy controller is lost, the SYRS will enter default stand-alone mode to provide a basic level of room control.

Listings
Class 2 low-voltage device.

Example: SYRS 1G 9BT BJ4

ORDERING INFORMATION

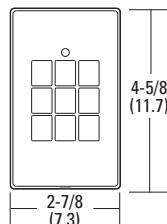
Series	Number of gangs	Number of buttons	Finish	Options
SYRS	1G 1 gang	_BT (1 to 9)	14BT 14 buttons ¹	EXT External input/output. (2) 0-10V dimming outputs, (2) switched outputs, (1) 0-10V dimming photocell input and (1) occupancy sensor input. KEY Manually disable local override via key ³
	2G 2 gangs	10BT 10 buttons ¹	16BT 16 buttons ¹	
		12BT 12 buttons ¹	18BT 18 buttons ¹	
			BJ4 Brushed stainless steel	BL4 Painted black ²
			WC2 Painted white ²	BF4 Polished brass ²
			IE3 Painted ivory ²	

ADDITIONAL INFORMATION

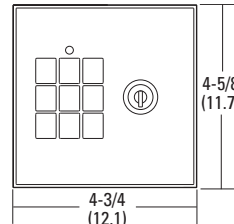
For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES

ORDER SEPARATELY	
SYRS 1GR	1-gang deep backbox
SYNERGY ENGRAVING SERVICES	Engraved buttons
SYA CABLEA4	Control station network wire
SYWR 6B	Six-button remote control
SYWR HHP	Remote hand-held programmer
LSA 1G CLC	Clear locking cover for 1-gang wallstation
LSA 1G CLC GASKET	NEMA 3R gasket for clear locking cover



SYRS 1G 9BT



SYRS 2G 9BT KEY

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

Notes

- 1 Not available on 1G versions.
- 2 Additional delivery time and/or cost may apply.
- 3 Only available with two gangs, and with one to nine buttons.

PRODUCT INFORMATION

SYWR

Wireless Programmer



Intended Use
Used for wireless remote control of lighting functions in a Synergy® system. Operates in conjunction with the infrared receiver on the SYRS digital remote wallstation (above).

The HHP version is useful in providing preset dimming control without the need for an SQCS control station.

System Features
The SYWR 6B six-button transmitter provides remote

activation of four presets, master raise/lower and master on/off. The SYWR HHP hand-held programmer permits the saving and activation of 12 lighting preset scenes, the manual control of

up to 12 dimming channels, master raise/lower and master on/off. Preset scenes configured and saved with the HHP may be recalled from buttons on the wallstation.

Example: SYWR HHP

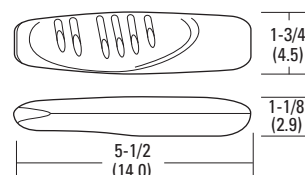
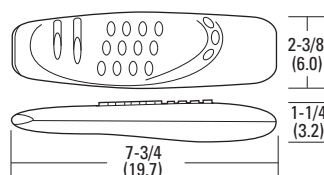
ORDERING INFORMATION

Series	Type
SYWR	6B 6-button remote transmitter
	HHP 12-button hand-held programmer

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



PRODUCT INFORMATION

Intended Use

PC-based Windows® application used to configure a Synergy® system equipped with MLS or MLX controllers. Allows on-site or remote programming and configuration of all system parameters and schedules.

System Features

Utilizes a familiar Windows graphical user interface to provide easy access to all system data. A simple tab-based navigation scheme allows the user to reach most configuration screens with

a single click of the mouse.

Access privileges for different software features can be set up for multiple users through the use of administrator-defined login IDs and passwords.

Online mode allows real-time monitoring and override of input and load status as well as diagnostic functions.

Connection to the system may be made with the supplied RS-232 cable through the front-mounted DB-9 connector on any system controller, directly over the

BACnet® network via an Ethernet connection or to the Synergy RS485 Arcnet network (optional SYA NIC PCI network interface card in PC required) A connection may also be made from a remote site using standard telephone lines via the PHONE option on the controller and a PC equipped with a telephone modem.

Minimum hardware requirements are a 266MHz Pentium® II class PC running Windows 2000 or later operating system with 128 MB RAM, 30 MB

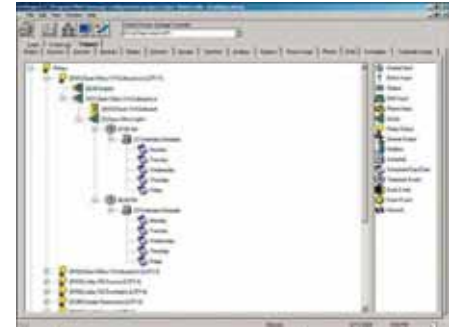
free disk space and 800 x 600 video resolution.

Other

Optional trending and usage software is available to provide the capability for facilities to log certain loads for trending analysis. Provides automatic recording and archiving. (Requires Ethernet or RS485 network connection to Synergy panels.)

SYSW CONFIG

System Configuration Software



Example: SYSW CONFIG

ORDERING INFORMATION

Series

SYSW CONFIG Synergy configuration software

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES

ORDER SEPARATELY

SYA DESKTOP	PC workstation suitable for system configuration or graphics. Contact factory for mounting and touch-screen options.
SYNERGY GRAPHICS SOFTWARE	Graphical user software.
SYNERGY GRAPHICS SCREENS	Factory-prepared SYNERGY GRAPHICS SOFTWARE screens per user specifications. Indicate quantity of screens required.
SYNERGY TREND USAGE SOFTWARE	Software to provide logging capability for selected loads for trending analysis. Provides automatic recording and archiving.

PRODUCT INFORMATION

Intended Use

Adds real-time control and monitoring capabilities to a Synergy® system through the use of a flexible graphical interface. Runs as a fully integrated component of the SYSW CONFIG software installed on a desktop, laptop or panel PC connected to the system via an RS-485, Ethernet or wireless network connection.

System Features

Provides intuitive and interactive point-and-click control of loads with status feedback and remote diagnostic capability. Simple setup and configuration options allow the creation of floor-plan-based, button-based or combination screens. Flexible control options allow graphical objects to directly monitor and override

all system inputs (switches, photocells, digital stations), outputs (relays, dimmers, controllable breakers, DALI devices) room partitions and load groups. Integrated scheduling module allows the creation of temporary, PC-based schedules for special events.

Over 32,000 screens may be configured and the number of

control objects per screen is limited only by screen resolution. Control screens may be user-configured in the field or ordered factory-prepared to client specifications via the SYNERGY GRAPHICS SCREENS accessory.

SYNERGY GRAPHICS SOFTWARE

Graphical User Interface



Example: SYNERGY GRAPHICS SOFTWARE

ORDERING INFORMATION

Series

SYNERGY GRAPHICS SOFTWARE Synergy graphical user interface

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES

ORDER SEPARATELY

SYNERGY GRAPHICS SCREENS	Factory-prepared SYNERGY GRAPHICS SCREENS per user specifications. Indicate quantity of screens required.
SYA DESKTOP	PC workstation suitable for system configuration or graphics. Contact factory for mounting and touch-screen options.

PRODUCT INFORMATION

SYA LCD

LCD Touch-Screen
Graphical User Interface



Intended Use
Used in conjunction with a Synergy® system equipped with SYSC MLX controllers to provide system-wide configuration, monitoring and override of lighting zones.

System Features
Full-color TFT touch-screen graphical interface may be configured with floorplan-based or button-based screens. Flexible control options allow graphical

objects to monitor and override any system input, output or load group as needed to satisfy project requirements. Screens may be field or factory configured.

Listings
UL Listed to U.S. and Canadian safety standards.

ORDERING INFORMATION

Example: SYA LCD SCREEN

Series

SYA LCD SCREEN Full-color touch-screen user interface (may be wall or panel mounted)^{1,2}

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

Notes

- 1 Available in various screen sizes and mounting options. Consult factory for information.
- 2 Requires rear access for wall mounting.

PRODUCT INFORMATION

SYA DESKTOP

PC Interface



Intended Use
The SYA DESKTOP provides the ability to program or override all features of Synergy® lighting control panels when used in conjunction with the Synergy SYSW

CONFIG software. Schedules and programs can be composed off-line and downloaded locally through the RS-232 port on Synergy controllers, remotely via an Ethernet LAN, Synergy Arcnet

network or through the use of an optional modem.

Installation
Synergy panel network, building LAN or BAS network connections are made via Ethernet or Arcnet network

(Arcnet connection requires optional SYA NIC PCI).

System Features
Available as desktop, laptop or tablet PC, with the latest processor speed and features.

ORDERING INFORMATION

Example: SYA DESKTOP

Series

SYA DESKTOP Desktop PC
SYA LAPTOP Laptop computer
SYA TABLET Tablet PC

Options¹

(blank) Standard 19" flat-panel LCD monitor
TOUCH SCREEN 19" touch-screen flat-panel monitor

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES

ORDER SEPERATELY

SYSW CONFIG	Synergy panel configuration software for personal computer
SYNERGY GRAPHICS SOFTWARE	Graphics software for personal computer
SYA ETHERNET SWITCH 5 PORT	Ethernet 5-port 10-base T-switch
SYA ROUTER	Native BACnet® router to connect a Synergy RS485 Arcnet network to an ethernet LAN
SYA NIC PCI	Arcnet interface card

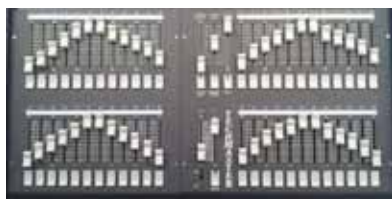
Notes

- 1 Only available on SYA DESKTOP.

PRODUCT INFORMATION

LSCC

DMX Control Console



Intended Use
Two-scene portable control console that offers simple, economical control for the Synergy® Series dimmer cabinet in applications such as small stages, churches

and presentation areas. Dual operation modes offer conventional two-scene preset or a "hold and fade" mode with a virtual second scene to double the effective number of control channels. Heavy-

duty construction will hold up in school applications, and operation is simple enough for untrained personnel.

System Features
Power-on LED dual

operation modes. Split dipless crossfaders. Grand master fader blackout switch DMX-512 output signal. Chase control module, 25' control cable included.

ORDERING INFORMATION

Example: LSCC 2S12C P25 DMX

Series

LSCC 2S12C Two-scene preset, 12 control channels
2S24C Two-scene preset, 24 control channels
2S36C Two-scene preset, 36 control channels

Cable

P25 DMX Low-voltage control cable, 25 ft. with connectors

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES

ORDER SEPERATELY

LSCC PR DMX	Single-gang plug-in receptacle
LSCC PRP DMX	Single-gang pass-through receptacle
SYA CABLES2	Digital network cable; specify 250, 500 or 1000 feet

PRODUCT INFORMATION

Intended Use

Plenum-rated network cable suitable for use with industrial EIA RS-485 networks.

SYA CABLES2: Fully compatible with Synergy® MLX and SwitchPak® system remote panel-to-panel networks.

SYA CABLEA4: Fully compatible for use with Synergy SQCS, SYRS and DEQ digital networks.

Installation

Cable must be used in conditioned space, either in plenum or pipe. Cable cannot be direct-buried or used between buildings.

System Features

Factory-approved network cables with matching conductor color coding consistent with all factory wiring diagrams and installation

instruction for trouble-free network installations.

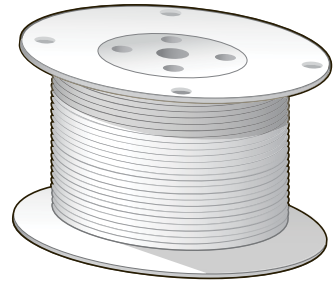
SYA CABLES2: For use with industrial EIA RS-485 networks.

SYA CABLEA4: Includes all required power and communication conductors. For use with industrial EIA RS-485 networks plus two #16 AWG conductors for 24V station power.

Listings

UL Listed, NEC type CL2P, rated for 75° C/300V.

SYA CABLE
Digital Network Cable



Example: SYA CABLES2 1000FT

ORDERING INFORMATION

Series	Cable	Length
SYA	CABLES2 ¹	1000FT 1000 feet
	CABLEA4 ¹	500FT 500 feet
		250FT 250 feet

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

Notes

- ¹ Cable must be used in conditioned space, either in plenum or pipe. Cable cannot be direct-buried or used between buildings. For installation between building, use fiber optic cable and Synergy SYA M1 ARCFST or SYA M1 ARCFST2 fiber optic hub.

PRODUCT INFORMATION

Intended Use

The LSA-EB transfer equipment is used to transfer lighting loads from a dimmed or switched normal power source to an alternate power source upon failure of the normal source. The lighting load is returned to its pre-outage level after restoration of the normal source.

Installation

Automatic transfer switch assures continuous power for emergency systems.

30-amp contacts rated for switching one load between two sources.

20 times in-rush current rating.

NEMA 1 enclosure.

Neutral switching standard.

70% dropout, 90% pickup.

Three-phase sense standard.

Mechanically held in normal and emergency position.

Listings

UL 1008 Listed.

LSA EB
Emergency Transfer Switch



Example: LSA EB 4POLE 120 ATS

ORDERING INFORMATION

Series	Maximum number of poles	Voltage	Options
LSA EB Transfer switch ¹	2POLE	120	ATS Automatic transfer switch UL1008 listed
	4POLE	277	
	6POLE		
	12POLE		
	24POLE ²		

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

Notes

- ¹ The coil of the transfer switch must be fed with a constant output circuit breaker in the dimmer cabinet or main ATS of the building.
- ² 120V version only.

PRODUCT INFORMATION

Low-Voltage Override Switch

LVPS

Two-Button Decorator Style Override Switch



Intended Use

The LVPS low-voltage override switch provides a durable and attractive solution to override lights controlled by Synergy® lighting control systems. The LVPS is a Decorator style switch and uses standard Decorator wallplates for single- or multi-gang applications. A

pilot light is provided for each switch so it can be used as one switch for ON (top push button) and one switch for OFF (bottom push button). Or it can control two separate lighting zones with each respective switch toggling a zone ON and OFF. A terminal block is provided for all low-voltage connections,

eliminating the need for traditional spade-type connectors or wire nuts.

ORDERING INFORMATION

Example: LVPS 2BT WH

Series ¹	Number of buttons	Finish
LVPS	2BT Two buttons	WH White IV Ivory

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

Notes

¹ Uses standard Decorator wallplates.

PRODUCT INFORMATION

Low-Voltage Override Switch

LVKS

Decorator Style Locking Switch



Intended Use

LVKS switches are a durable and attractive solution for providing a secure means to override lighting. The user must have the LVKS key (provided) to override lights. Switches are supplied with pigtail connectors for low-voltage wire connections.

System Features

Use with Synergy® or Switch-Pak® lighting control panels. The LVKS can be used with the LVPS or other Decorator style devices in a multi-gang Decorator wallplate.

ORDERING INFORMATION

Example: LVKS SPDT WH

Series	Options	Finish
LVKS Low-voltage key switch	HOA 3-position maintained for hand-off-auto operation SPDT MOM 3-position momentary, center off SPDT 2-position maintained	WH White IV Ivory

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES

ORDER SEPARATELY

Uses standard Decorator wallplates

DSA FP D_ (# of gangs) Decora wallplate

Intended Use
LVDS momentary switches and DSA wallplates provide a durable and attractive low-voltage switch solution with a standard strap-mount form factor and designer styling. Switches may be ganged with other Decora style devices. DSA wallplates are offered in a variety of

sizes and finishes. Use with Synergy® or SwitchPak® lighting control panels.

LVDS

Momentary Decora® Switch



Example: LVDS WH

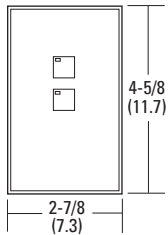
ORDERING INFORMATION

Series	Finish
LVDS	WH White IV Ivory GY Gray ¹

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Notes

- 1 Additional delivery time and/or cost may be associated with these premium colors.

PRODUCT INFORMATION

Intended Use
The LVRS low-voltage remote station is ideal when one to nine buttons are required in a compact location. Buttons may be programmed at a SwitchPak® panel for override control of individual or multiple relays.

System Features
Stations are single-gang, screwless appearance and are available with one to nine buttons in a variety of painted and metallic finishes. Optional LED pilot lights provide positive feedback of button status. Button caps can be engraved with labels having up to two lines of text.

Installation: Wallstation mounts in a grounded Lithonia #SYRS 1GR or Steel City #52C13 plaster ring. Stations connect to SwitchPak panel switch inputs with #14 - #18 AWG low-voltage Class 2 conductors.

LVRS

Architectural Remote Station



Example: LVRS 1G 2SW BJ4 PL

ORDERING INFORMATION

Series	Number of gangs	Number of buttons	Finish ¹	Options
LVRS	1G One gang	_SW 1 to 9 ²	BJ4 Brushed stainless steel, black buttons WC2 Painted white, white buttons IE3 Painted ivory, ivory buttons	PL 24V pilot indicators

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES	
ORDER SEPARATELY	
SYRS 1GR	Plaster ring, mounts to grounded 4" box (by others)
SYNERGY ENGRAVING SERVICES	Engraved buttons

Notes

- 1 Other finishes available; contact your local Lithonia Lighting representative or the Lithonia Lighting factory for more information.
- 2 Eight-button maximum when used with SPAK.

PRODUCT INFORMATION

Decora Style Wallbox Dimmers

DSD

Mark 10™ Wallbox Dimmer

**Intended Use**

DSD Series dimmers provide smooth full-range dimming of fluorescent fixtures equipped with the Advance® Mark 10 dimming ballast. Dimmers have a strap-mount design and may be used individually or ganged together for multiple-load

applications. These dimmers are ideally suited for use with Lithonia fixtures with the ADEZ dimming ballast option.

Installation

All dimmers mount in standard single-gang switch box and can be ganged together using multi-gang wallplates (see below).

System Features

Operation: Linear slide dimming with separate rocker switch for preset or three-way on/off operation and single-location dimming.

Compatibility: Two-wire dimming ballasts.

Listings

UL Listed. CSA Certified. NOM Certified.

ORDERING INFORMATION

Example: DSD 500 ADEZ 277 IV

Series	VA rating	Ballast	Voltage	Finish
DSD	500 500 VA	ADEZ Advance Mark 10 fluorescent	120 277	IV Ivory ¹ WH White ¹

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

120V CAPACITIES AND DERATING

ADVANCE MARK 10 CATALOG NUMBER	LAMP TYPE	MAXIMUM NO. BALLAST/DIMMER	
		ONE-GANG	MULTI-GANG
REZ-1T32	CFM32W	13	10
REZ-1T42	CFM42W	10	8
REZ-1Q18	CFQ18W	23	18
REZ-2Q18	CFQ18W	11	9
REZ-2Q26	CFQ26W	8	6
REZ-2T42	CFTR42W	5	4
REZ-132	F32T8	13	11
REZ-2S32	F32T8	6	5
REZ-3S32	F32T8	4	3
REZ-154	F54T5/HO	7	6
REZ-2S54	F54T5/HO	3	3
REZ-1TTS40	FT40W	12	9
REZ-2TTS40	FT40W	6	4

277V CAPACITIES AND DERATING

ADVANCE MARK 10 CATALOG NUMBER	LAMP TYPE	MAXIMUM NO. BALLAST/DIMMER	
		ONE-GANG OR MULTI-GANG	
VEZ-2Q26	CFM26W	8	
VEZ-1T32	CFM32W	12	
VEZ-1T42	CFM42W	10	
VEZ-1Q18	CFQ18W	22	
VEZ-2Q18	CFQ18W	11	
VEZ-132	F32T8	13	
VEZ-2S32	F32T8	6	
VEZ-3S32	F3T8	4	
VEZ-154	F54T5/HO	7	
VEZ-2S54	F54T5/HO	4	
VEZ-1TTS40	FT40W	12	
VEZ-2TTS40	FT40W	6	

Notes

- Includes standard Leviton Decora® wallplate. Order screwless or multi-gang DSA wallplates separately below. For higher capacity, use either ISD ADEZ or DSD with RDM remote dimmer. For the latest in dimming capability information, please check the fluorescent dimming guide on www.synergylightingcontrols.com.

PRODUCT INFORMATION

Decora Style Wallbox Dimmers

DSA FP

Decora® Style Faceplate

**Intended Use**

Provides an architecturally styled finish treatment for DSD, ISD, LVDS and LIRW Series products. Wallplates are available for individual devices and multi-gang

applications with up to six devices.

Installation

Wallplates are screwless and utilize an adapter strap which permits mounting

to the device without exposed fasteners.

System Features

Low-profile wallplates are compatible with DSD, ISD, LVDS and LIRW Series

products and other Decora style devices.

ORDERING INFORMATION

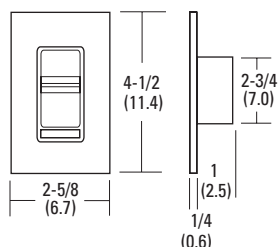
Example: DSA FP D1 WH

Series	Openings ¹	Finish
DSA FP	D1 One opening D2 Two openings D3 Three openings D4 Four openings D5 Five openings D6 Six openings	WH White IV Ivory AL Almond ² GY Gray ² BK Black ² BR Brown ²

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.

**Notes**

- One gang per opening is required.
- Additional delivery time and/or cost may be associated with these premium colors.

PRODUCT INFORMATION

Intended Use

The ISD Series wallbox dimmers are designed to provide smooth full-range dimming for a variety of loads. Products are available for incandescent, low-voltage, electronic low-voltage, and fluorescent two-wire and four-wire load types. The ISD dimmers can be used in place of a standard wall switch to provide on/off and dimming lighting control.

Installation

All dimmers mount in standard single-gang switch box and can be ganged together using multi-gang wall plates (see page 764).

System Features

Fluid slide movement allows fine adjustment of light level over the entire dimming range. Separate on/off switch permits switching of lighting at a preset level.

An integral LED indicator on illuminated dimmers turns on when the switch is off to facilitate switch location in a dark room. Can be used with standard three-way or four-way switch for multi-location switching. ISD Series dimmers are compatible with Decora® Series wall plates. Single location, linear slide dimming with separate push on/off switch for preset three-way and four-way

switching. Available standard in white and ivory and supplied with a matching single-gang Decora style wall plate. Snap-on Decora style wallplate color change kits available (gray, black, brown, almond, white and ivory).

Listings

UL Listed. CSA Certified. NOM Certified.

ISD
Architectural Wallbox Dimmers



Example: ISD 600 LV 120 WH

ORDERING INFORMATION

Series

Incandescent (supplied with white or ivory faceplates)

ISD 600 I 120 WH/IV Illuminated slide dimmer; 600W, 120V, 60Hz
ISD 1000 I 120 WH/IV Illuminated slide dimmer; 1000W, 120V, 60Hz

Magnetic low-voltage (supplied with white or ivory faceplates)

ISD 600 LV 120 WH/IV Illuminated slide dimmer; 600VA, 120V, 60Hz
ISD 1000 LV 120 WH/IV Illuminated slide dimmer; 1000VA, 120V, 60Hz

Electronic low-voltage (supplied with white or ivory faceplates)

ISD 400 ELV 120 WH/IV Illuminated slide dimmer; 400VA, 120V, 60Hz
Fluorescent Mark 10™ (supplied with white or ivory faceplates)

ISD 600 ADEZ 120 WH/IV Slide dimmer; 600VA, 120V, 60Hz
ISD 1000 ADEZ 120 WH/IV Slide dimmer; 1000VA, 120V, 60Hz
ISD 1200 ADEZ 277 WH/IV Slide dimmer; 1200VA, 277V, 60Hz

Fluorescent four-wire (supplied with white or ivory faceplates)

ISD BC 120/277 WH/IV Ballast controller; 120/277V

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES

ORDER SEPARATELY

ISD CCKIT	Color change kit, specify WH (white), IV (ivory), GY (gray), BR (brown), BK (black) or AL (almond).
DSA FP D	Low-profile thermoplastic wallplate for ISD or Leviton Decora® compatible devices (page 764).
RDM	Remote dimmer module

MAXIMUM LOAD/DIMMER

ISD I / ISD LV / ISD ELV

CATALOG NUMBER	ONE GANG	TWO GANGS	MORE THAN TWO GANGS
ISD 1000 I 120	1000W	800W	700W
ISD 600 I 120	600W	500W	400W
ISD 1000 LV 120	1000VA	800VA	700VA
ISD 600 LV 120	600VA	500VA	400VA
ISD 400 ELV 120	400VA	350VA	250VA

MAXIMUM NUMBER OF BALLASTS/DIMMER

ISD 1200 ADEZ 277 (277V ADVANCE MARK 10)

BALLAST CATALOG NUMBER	LAMP TYPE	ONE GANG	TWO GANGS	MORE THAN TWO GANGS
VEZ-2Q26	CFM26W	20	20	20
VEZ-1T32	CFM32W	30	30	30
VEZ-1T42	CFM42W	24	24	24
VEZ-1Q18	CFQ18W	54	54	54
VEZ-2Q18	CFQ18W	27	27	27
VEZ-2T42	CFTR42W	12	12	12
VEZ-132	F32T8	33	33	33
VEZ-2S32	F32T8	16	16	16
VEZ-3S32	F32T8	11	11	11
VEZ-154	F54T5/HO	18	18	18
VEZ-2S54	F54T5/HO	9	9	9
VEZ-1TTS40	FT40W	28	28	28
VEZ-2TTS40	FT40W	14	14	14

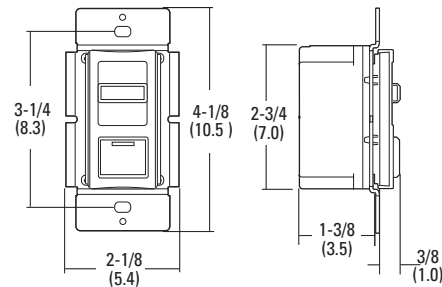
MAXIMUM NUMBER OF BALLASTS/DIMMER

ISD 600 ADEZ 120 (120V ADVANCE MARK 10)

ISD 1000 ADEZ 120 (120V ADVANCE MARK 10)

BALLAST CATALOG NUMBER	LAMP TYPE	ISD 600 ADEZ 120 (120V ADVANCE MARK 10)			ISD 1000 ADEZ 120 (120V ADVANCE MARK 10)		
		ONE GANG	TWO GANGS	MORE THAN TWO GANGS	ONE GANG	TWO GANGS	MORE THAN TWO GANGS
REZ-1T32	CFM32W	15	13	10	26	20	18
REZ-1T42	CFM42W	12	10	8	20	16	14
REZ-1Q18	CFQ18W	27	23	18	46	37	32
REZ-2Q18	CFQ18W	13	11	9	23	18	16
REZ-2Q26	CFQ26W	10	8	6	17	13	12
REZ-2T42	CFTR42W	6	5	4	10	8	7
REZ-132	F32T8	16	13	11	27	22	19
REZ-2S32	F32T8	8	6	5	13	11	9
REZ-3S32	F32T8	5	4	3	9	7	6
REZ-154	F54T5/HO	9	7	6	15	12	11
REZ-2S54	F54T5/HO	4	3	3	7	6	5
REZ-1TTS40	FT40W	14	12	9	24	19	17
REZ-2TTS40	FT40W	7	6	4	12	9	8

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Notes

For the latest in dimming compatibility information, please check the fluorescent dimming guide on www.synergylightingcontrols.com.

PRODUCT INFORMATION

MiniPac Architectural Dimming System

SQMPDC

MiniPac® Remote High Power Dimmer Pack



Intended Use
Use with SQMPCS digital control station to form a small, compact, stand-alone dimming system. Use with SQIDC 8-channel wall box dimmer to control loads on channels 5-8. Use as a remote dimmer pack for a Synergy® system (Legacy option on SYSC controller required).

Electrical
All dimmers in a single pack must be fed from the same phase. There is no phase relationship between each dimmer pack or to SQMPCS,

SQIDC or Synergy panels. Connects to SQMPCS control station via SYA CABLEA4 control station wire. Connects to Synergy cabinets or SQIDC via SYA CABLES2 network wire.

Installation
NEMA 1 enclosure is suitable for surface or flush wall mounting. Dimmers are fed from individual 15A or 20A branch circuits.

System Features
When used with SQMPCS: Forms compact dimming system for offices, conference

rooms, etc. Up to three dimmer packs may be used per SQMPCS control station.

When used with SQIDC: An integral switch matrix allows dimmers to be flexibly assigned to SQIDC station channels. Up to four dimmer packs may be used per SQIDC control station.

When used with Synergy: MLX controller with Legacy option required. Up to 64 dimmer packs may be connected to each controller. Dimmers are fully configurable from

system controller and may be controlled by any Synergy user interface or schedule.

High-quality architectural-grade filters minimize lamp noise. Dimmers are cooled through natural convection flow provided by front cover venting and are available with or without positive air gap on/off relays.

Listings
UL Listed to U.S. and Canadian safety standards.

ORDERING INFORMATION

Example: SQMPDC 4UX2 S2 120

Series	Number of dimmers/Dimmer type/Capacity per dimmer			Type	Voltage	Options
SQMPDC	Number of dimmers	Dimmer type	Capacity per dimmer	S2 Secondary pack	120 120V (single phase)	EM For essential lighting loads, UX type modules only. All dimmers automatically set to full on upon loss of normal power. Transfer of input feed by others.
	2 2 dimmers	UX Universal incandescent; two wire fluorescent	2 2000VA, 120V	M2 Master pack	277 277V (single phase)	
	4 4 dimmers	UF Universal incandescent; and two, three and four-wire fluorescent; non-dim	4 4000VA, 277V			

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES

ORDER SEPARATELY

SQMPDC RE DOOR KIT	Recessed door kit for SQMPDC dimmer cabinets
SYA CABLEA4	Digital control station network wire for SQMPCS; specify 250, 500 or 1000 feet
SYA CABLES2	Digital panel network wire for SQIDC and Synergy panel network w/Legacy option; specify 250, 500 or 1000 feet

PRODUCT INFORMATION

MiniPac Architectural Dimming System

SQMPCS

MiniPac® Control Station



Intended Use
Sequel® MiniPac Control Stations provide manual and preset dimming control of Sequel MiniPac modular dimmers (SQMPDC) in architectural dimming applications. These stations are offered in a variety of styles and architectural finishes suitable for virtually any application. Control stations may be used with matching remote sta-

tions or wireless remotes, or they can be interfaced with external systems.

Installation
4- and 8-channel stations mount in #SQCS 5GB or RACO 699 five-gang backbox. The SQMPCS station connects to the SQMPDC dimmer pack via the four-wire SYA cable A4 control station network cable.

System Features
Functions: Master raise and lower buttons adjust the intensity of all lights dimmed from the station. Channel raise and lower buttons adjust the intensity level of individual channels. LED bar graph displays intensity level. Select button saves presets and fade time is adjustable for each preset scene. Preset

button saves and activates presets. Off function turns off all channels.

Integral dry contact closure interface allows access to presets, master raise/lower, and off functions for A/V systems and auxiliary equipment.

Classification: Class 2 low-voltage device.

ORDERING INFORMATION

Example: SQMPCS 6P 4C BJ4 TR

Series	Number of presets	Channels	Finish	Wallplate
SQMPCS Sequel MiniPac Control Station	6P 6 presets	4C 4 channels	BJ4 Brushed stainless steel, black buttons	SD Solid
		8C 8 channels	WC2 Painted white, white buttons ¹	TR Translucent
			IE3 Painted ivory, ivory buttons ¹	
			BL4 Painted black, black buttons ¹	
			BF4 Polished brass, black buttons ¹	

ADDITIONAL INFORMATION

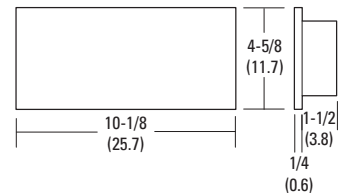
For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES

ORDER SEPARATELY

SQMPDC	Sequel MiniPac dimmer cabinet
SQCS 5GB	5-gang backbox for 4-channel and 8-channel stations
SQRS	Remote station; specify 2, 4, 5, 6 or 9 buttons
SYNERGY ENGRAVING SERVICES	Engraved buttons
SYA CABLEA4	Control station network wire
SQCS PE	Portable console for Sequel® stations
SQCS RE	Recessed NEMA 1 enclosure for Sequel stations
SQCS PR	Receptacle to connect portable console to A4 network wire

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Notes

¹ Additional delivery time and/or cost may apply.

PRODUCT INFORMATION

Intended Use

Provides manual and preset dimming of most lamp types in wallbox applications. Offered in a variety of styles and architectural finishes. May be used singly with matching remote stations or interfaced with external systems.

System Features

Master raise and lower buttons adjust intensity of all lights dimmed from station.

Channel raise and lower buttons adjust intensity level of individual channels. LED bar graph displays intensity level. Select button saves presets. Fade time is adjustable for each preset scene. Preset button saves and activates presets. Off function turns off all lighting. Low-end and high-end dimming limits and dimmer curves are adjustable per channel.

Installation

Requires SQCS 5GB or RACO 699 five-gang backbox, 3-1/2" deep. Terminals on rear of station allow access from SQRS remote stations or momentary dry contact closures to six presets, master raise/lower, channel raise/lower, select and off.

Overall maximum capacity is 2000VA. Maximum capacity per output (1-4) is 800VA

incandescent, magnetic low-voltage and magnetic ballast, and 600VA electronic two- and three-wire fluorescent ballasts.

Listings

UL Listed to U.S. and Canadian safety standards.

SQIDC

Integrated Wallbox Preset Dimmer



Example: SQIDC 2000 6P 4C BJ4 TR 120

ORDERING INFORMATION

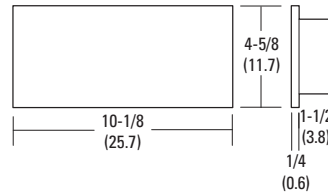
Series	VA rating	Number of presets	Number of channels	Finish	Wallplate	Voltage
SQIDC	2000 2000 watts	6P 6 presets	4C 4 channels 8C 8 channels ¹	BJ4 Brushed stainless steel, black frame and buttons WC2 Painted white, white frame and buttons ² IE3 Painted ivory, ivory frame and buttons ² BL4 Painted black, black frame and buttons ² BF4 Polished brass, black frame and buttons ²	SD Solid TR Translucent	120

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES	
ORDER SEPARATELY	
SQMPDC	Sequel® MiniPac® dimmer cabinet (for loads on channels 5-8)
SQCS 5GB	5-gang backbox for SQIDC stations
SYNERGY ENGRAVING SERVICES	Engraved buttons
SQRS	Remote station; specify 2, 4, 5, 6 or 9 buttons

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Notes

- 1 8-channel unit requires Sequel MiniPac dimmer cabinet (page 766) for control of loads on channels 5-8.
- 2 Additional delivery time and/or cost may apply.

PRODUCT INFORMATION

Remote Dimmer Module

Intended Use

Used to boost the capacity of an ISD (page 765), DSD (page 764), or SQIDC (page 767) Series wallbox dimmer. Also allows an ISD Series dimmer to control three-wire fluorescent dimming ballasts and SQIDC dimmers to

control four-wire fluorescent dimming ballasts.

Installation

RDMI and RDMF may be surface- or flush-mounted using a 2-gang box (at least 3-1/2" deep) and 2-gang raised cover. The RDMBC may

be surface- or flush-mounted using a 4" square outlet box.

System Features

Available for a wide variety of dimming load types. Models for use with line-voltage loads include an integral RFI filter. All models are phase

independent of the control device and equipped with a low-end trim adjustment.

Listings

UL Listed. CSA Certified. NOM Certified.

RDM

Remote Dimmer



Example: RDMI 2000 120

ORDERING INFORMATION

Series	VA rating	Notes
RDMI 2000 120	1920 W/VA, 120V, 50/60Hz for incandescent, magnetic low-voltage, neon and cold-cathode	
RDMF 2000 120	1920 VA, 120V, 50/60Hz for Advance® Mark 10™ and Lutron® Hi-Lume®, Tu-Wire® and ECO-10™ fluorescent	
RDMF 3000 277	3000 VA, 277V, 50/60Hz for Advance Mark 10 and Lutron Hi-Lume, Tu-Wire and ECO-10 fluorescent	
RDMBC 120/277	1920 VA at 120V; 4400VA at 277V; 50/60Hz for 0-10VDC fluorescent ballasts only. Mounts to a grounded 4" outlet box.	

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

LOAD TYPE	LOAD VOLTAGE	CONTROLLER	RDM
Incandescent, magnetic low-voltage, neon	120V	SQIDC or ISD 600 I 120	RDMI 2000 120
Advance, Mark 10, Lutron Tu-Wire	120V	SQIDC, ISD 600 ADEZ 120 or DSD 500 ADEZ 120	RDMF 2000 120
Advance, Mark 10, Lutron Tu-Wire	277V	SQIDC, ISD 600 ADEZ 120 or DSD 500 ADEZ 120	RDMF 3000 277
Lutron Hi-Lume/ECO-10	120V	SQIDC or ISD 600 I 120	RDMF 2000 120
Lutron Hi-Lume/ECO-10	277V	SQIDC or ISD 600 I 120	RDMF 3000 277
0-10VDC Fluorescent	120V or 277V	SQIDC or ISD 600 I 120	RDMBC 120/277

SPAK

Eight-Relay Panel



Intended Use

A compact and economical lighting control panel that offers simplified solutions for a broad range of lighting control applications. This time-based controller switches lighting on/off at preset times while managing a variety of low-voltage inputs. Relays are rated to directly switch 20A lighting loads, eliminating the need for external contactors or relays.

Construction

Housing: NEMA 1 enclosure wall-mount with hinged locking cover. Separate line- and low-voltage compartments.

System Features

Simple set-up and operation: Programming is quick and easy using the large LCD display with associated soft keys and automatic ReadyHelp™ on-screen help guide. Unique quick-assign keys provide one-touch program selections and instant override.

Scheduling: Individual daily schedules automatically repeat for seven-day lighting load operations. Holiday schedule accommodates 32 dates. Astronomic and automatic Daylight Savings Time operation.

Warn-before-off feature flashes lights prior to turning off.

Overrides: Eight low-voltage switch inputs can be programmed to provide manual control of any combination of relays or override one to eight zones of scheduled lighting. Analog photocell input does not require remote calibration.

System Remote Operation: A single SwitchPak® provides a complete lighting control solution and can be used to control operation of additional units. This powerful standard feature expands the capability of SwitchPak to a system level without adding the complexity often associated with networked systems.

Building Automation: Adding the BAS option enables native BACnet® communication for applications interfacing with building automation systems. SPAK native BACnet provides communication directly to BAS systems without BACnet gateways or converters, using the on-board RJ-45 ports.

Capacity: Eight single-pole, 20A rated relays for 120/277 dual voltage. Optional configurations available for either two or four 600V two-pole relays.

Listings

UL Listed to U.S. and Canadian safety standards.

ORDERING INFORMATION

Example: SPAK 8S 120/277

Series	Relays/poles	Voltage	Building automation
SPAK	8S Eight single-pole, 20A relays 4S2D Four single-pole, 20A relays and two double-pole, 30A relays	120/277 120/277 dual voltage	BAS Native BACnet ready ¹

ADDITIONAL INFORMATION

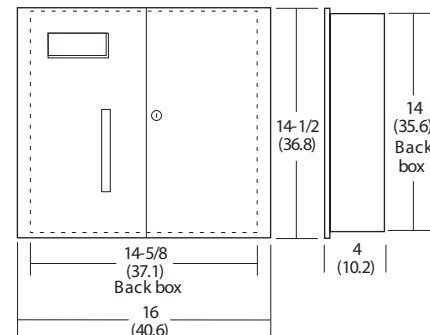
For additional product information, visit www.synergylightingcontrols.com.

ACCESSORIES

ORDER SEPARATELY

LSA APS OL	Analog photocell (outdoor mounting)
LSA APS S	Analog photocell (skylight mounting)
LVRS	Override switch; 1-9 buttons
LVPS	Override switch; 2 buttons
LVKS	Locking override keyswitch
SPAK HVB	High-voltage barrier kit to divide the high-voltage compartment into two sections
SSPL	Sweepswitch: line-voltage override switch
SPAK 4S/2D CONVERSION KIT	Two double-pole, 30A relay conversion kit; replaces one 4S relay card

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Notes

¹ System remote operation not available when using BAS option.

Intended Use

Provides individual local line-voltage override control of lighting in time-based control schemes. Can be used manually to turn lighting on and off in the normal manner. Resets itself automatically to the off position in response to a programmed power interruption signal provided by the lighting control panel.

Works like a standard wall switch for on/off operation.

Automatically resets to off when power is removed for approximately five seconds. Switch handle is lighted for easy location in the dark.

Wires to a 120V or 277V circuit switched by a Synergy® or SwitchPak® relay panel like a standard toggle switch; is not line/load sensitive and does not require a neutral connection.

Installation

Strap-mount device; mounts in a standard single-gang switch box and uses a standard toggle opening wall plate (not included).

Listings

UL Listed. CSA Certified.

SSPL
SweepSwitch®



Example: SSPL 05 277

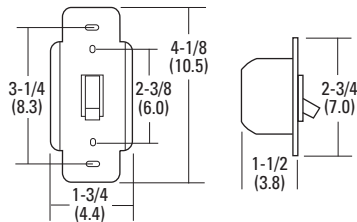
ORDERING INFORMATION

Series	Type	Voltage
SSPL	05 0.1 to 5.0 amps	277 120V or 277V (dual voltage)
	20 1.0 to 20 amps	

ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



PRODUCT INFORMATION

Emergency Overrides

Intended Use

The RRU provides an interface between a line-voltage normal power-sense circuit and the low-voltage override input on Synergy® SYPM power modules. All connected SYPM power modules will be overridden to full ON if normal power falls below 90% of nominal voltage.

System Features

Works in conjunction with Synergy SYPM power modules. One RRU is required for each Synergy cabinet to be overridden ON during power failure.

Available to sense either 120V or 277V normal power.

90% nominal input voltage drop out.

SPDT low-voltage dry contact outputs rated for 5 amps.

Listings

UL Listed.

RRU
SPDT Normal Power-Sense Relay



Example: RRU SPDT 120

ORDERING INFORMATION

Series	Voltage
RRU SPDT Power relay	120 120V
	277 277V

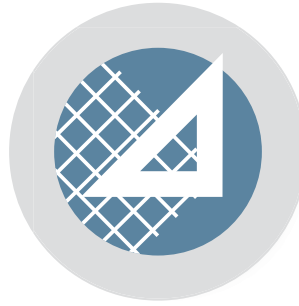
ADDITIONAL INFORMATION

For additional product information, visit www.synergylightingcontrols.com.

Simply Smarter

SIMPLY5™ lighting intelligence* is built on the premise that controls should be simple for everyone, from the specifier to the contractor to the occupant. It represents an innovative departure from the traditional piecemeal approach to lighting energy management.

With conventional systems, designers and installers are faced with trying to meet codes using a wide variety of lighting fixtures, relay panels, dimming systems, occupancy and daylight sensors. The SIMPLY5 approach is different, adding intelligence to highly efficient lighting fixtures and controls components to optimize them for energy management. Because all devices are intelligent, SIMPLY5 automates many setup, calibration and programming tasks which must be performed manually on other systems.



SIMPLE TO DESIGN & SPECIFY

- Meets automated control requirements for ASHRAE, IECC, Title 24 and EPAAct
- No relay or dimmer cabinet schedules to complete
- Lays out similarly to ordinary line voltage manual switching
- No occupancy sensor layouts required



SIMPLE TO INSTALL

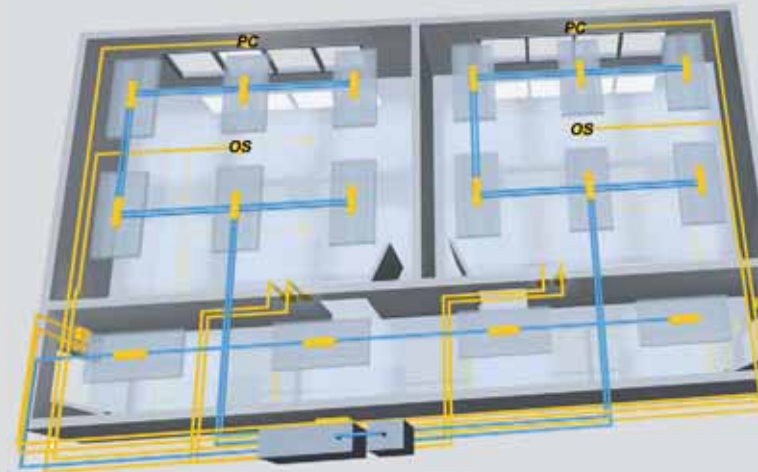
- Fast and error-free plug-and-play connections
- No complex Class 2 wiring required
- No large control cabinets to install or panel schedules to update
- Commissioning is not required to meet code: just set the time and date
- No special communication cables required



SIMPLE TO USE

- Intuitive interface allows occupants to easily adjust the light level for the task at hand; as low as 3% for AV presentations
- Seven specific dimming levels available; 85 levels available for load shedding
- Automatically adapts to occupant schedule changes

* Patent pending



Simply Better



SIMPLE TO EXPAND

- Light Energy Manager, switches, occupancy sensors and photocells may be added for automated time-clock control, occupancy sensing and daylight harvesting
- System may be scaled post-installation to accommodate areas as small as a single room or as large as a multi-building campus
- Components may be easily reconfigured to accommodate changes



SIMPLE TO MAINTAIN

- SYLVANIA QUICKTRONIC® multi-step electronic ballasts with program-start features maximize lamp life
- Adaptive electronics stay calibrated without manual adjustment
- Commissioning is not necessary when adding or replacing most components
- Adaptive scheduling accommodates occupants' usage automatically without reprogramming

Maximize Energy Savings

SIMPLY5 lighting intelligence maximizes lighting energy savings by first lowering the base consumption. It then distributes intelligent controls, enabling the easy incorporation of one or more timeclock, occupant or daylight-based automated controls. Finally, fully integrated load shed capabilities empower the property owner to take full advantage of EPAAct mandated real-time energy pricing and manage energy consumption while complying with utility incentives.

Gain Flexibility

With SIMPLY5, changes to the use of a building no longer require reprogramming or recommissioning of the control system. The integrated plug-and-play control elements make the system flexible and easy to reconfigure, as components can be added or removed at any time. Additionally, with local dimming and override controls, occupants have the power to create their personal environment.



SIMPLY5TM
LIGHTING INTELLIGENCE

PRODUCT INFORMATION

S5JB

Intelligent Junction Box

**Intended Use**

The SIMPLY5™ intelligent junction box (S5JB) is the brain of the SIMPLY5 system. One S5JB is required per lighting zone. All SIMPLY5 components connected to the S5JB are auto detected eliminating the need for field programming. The SIMPLY5 components that can connect to an S5JB include the S5W wall station for ON/OFF and dimming control, the S5SC sensor connector for accepting occupancy sensor and photocell inputs, and Acuity

Brands lighting fixtures with the SIMPLY5 ballast option. Up to 100 SIMPLY5 devices/ fixtures may be connected to one S5JB.

SIMPLY5 components use RELOC® modular wiring to provide both power and data communication which reduces both installation labor and complexity.

System Features

Plug-and-play Functionality: Automatic detection and configuration for proper operation with other connected

SIMPLY5 control devices and lighting fixtures as installed.

Standard RELOC connectors make installation a breeze; simply mount and plug in. The S5JB also is available without RELOC connectors. Specify the hardwire options (HW).

The S5JBs version includes an integral override switch for the switched output.

Includes low-voltage power supply for local room signal buss and control devices such

as wall stations, occupancy sensors and photocells.

Enables fully adaptive time schedules for controlled lighting when used with the S5LEM.

Easily integrates with any connected wall stations, occupancy sensors or photocells. No programming or setup required.

Listings

CSA Listed to U.S. and Canadian standards.

**Example: S5JB 120**

ORDERING INFORMATION

Series	Options
S5JB Provides digital dimming signal for SIMPLY5 fixtures ¹	120 RELOC 15' tee connector with 120V key
S5JBS Provides digital dimming signal for SIMPLY5 fixtures and switched output (277V, 20A) for non-SIMPLY5 fixtures ¹	277 RELOC 15' tee connector with 277V key
	HW Hardwire (no RELOC) 120/277V

ADDITIONAL INFORMATION

For additional product information, visit www.simply5.net.

Notes

- ¹ The S5JB only controls SIMPLY5 fixtures. The S5JBS dims and switches SIMPLY5 fixtures, and only switches non-SIMPLY5 fixtures.

PRODUCT INFORMATION

S5W

SIMPLY5™ Wallbox Station

**Intended Use**

The SIMPLY5 wall station (S5W) is used with the SIMPLY5 intelligent junction box to provide an intuitive user interface to seven smooth dimming levels from 100% to 3%. Wall stations may be field-configured for either single-zone or whole-room control and will automatically work in three-way or four-way configuration for

multi-location control in a single room.

System Features

Push on/push off large preset switch returns lights to last level.

Seven-segment LED level display.

Self-configures for multi-location control, timeclock override and occupancy

sensor override functionality as appropriate.

Side rocker switch allows dimming control.

SIMPLY5 RELOC control tee connector is provided.

Includes coordinating single-gang thermoplastic wall-plate.

Listings

CSA Listed to U.S. and Canadian standards.

**Example: S5W 120**

ORDERING INFORMATION

Series	Options	Finish
S5W Digital wall station ¹	120 RELOC 15' tee connector with 120V key.	(blank) White
	277 RELOC 15' tee connector with 277V key	IV Ivory
	HW Hardwire (no RELOC) 120-277V	

ADDITIONAL INFORMATION

For additional product information, visit www.simply5.net.

ACCESSORIES

ORDER SEPARATELY

DSA FPD_ (# of gangs)	Decora® wallplate
S5CCKIT_	Wall station color-change kit (designate color nomenclature)

Notes

- ¹ Standard RELOC connections. RELOC tee ships separately from wall box.

Intended Use

The SIMPLY5™ sensor connector (S5SC) provides the capability to connect one occupancy sensor and one analog photosensor to a SIMPLY5 intelligent junction box (S5JB). The occupancy sensor connected to the S5SC is used by the S5JB to automatically turn off the lighting fixtures connected to the S5JB. An analog photosensor con-

nected to the S5SC is used by the S5JB to perform daylight harvesting. In many cases, a second S5JB may be required to perform daylight harvesting as a second lighting zone in the room.

System Features

Provides one occupancy sensor input and one analog photosensor input.

Two Sensor Switch occupancy sensors can be connected to one input. The S5JB auto-detects when the S5SC is connected to it.

The S5SC is compatible with Synergy Lighting Controls sensor switch low-voltage occupancy sensors.

A power pack is not required for sensor switch occupancy

sensors; sensor power is provided by the S5SC.

Listings

CSA listed to U.S. and Canadian safety standards.

S5SC

Sensor Connector



Example: S5SC 120



ORDERING INFORMATION

Series	Options
S5SC Sensor connector	120 RELOC 15' tee connector with 120V key 277 RELOC 15' tee connector with 277V key HW Hardwire (no RELOC connector)

ADDITIONAL INFORMATION

For additional product information, visit www.simply5.net.

ACCESSORIES

ORDER SEPARATELY

DEQ APS	Analog photosensor
CM PDT 9	Ceiling-mount dual technology sensor head
WV PDT	Corner-mount dual technology sensor head

PRODUCT INFORMATION

Intended Use

The SIMPLY5™ light energy manager (S5LEM) is used in conjunction with the SIMPLY5 S5JB intelligent junction box for time-based control of up to 42, 20A circuits of SIMPLY5 compatible lighting fixtures. The S5LEM can manage as many as 700 rooms, assigned to eight different user-defined groups. Plug-and-play configuration of components allows commissioning of an energy-code

compliant system to be as easy as simply setting the time and date.

Typically, only one S5LEM is required per building unless there are more than 700 S5JBs.

System Features

Graphical LCD display and touch-sensitive keypad provide programming interface.

Daily or weekly on/off schedule programming capability.

Plug-and-play functionality.

Ethernet Networking: Two on-board Ethernet ports with integral switch allow S5LEM panels to be connected to each other and to building LAN via CAT5 cable without additional equipment.

Listings

CSA Listed to U.S. and Canadian safety standards.

S5LEM

Light Energy Manager



Example: S5LEM



ORDERING INFORMATION

Series
S5LEM Light energy manager

ADDITIONAL INFORMATION

For additional product information, visit www.simply5.net.