

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

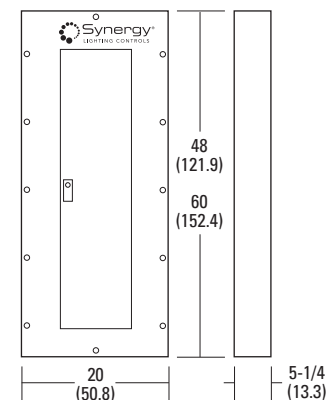
For additional product information, visit www.synergylightingcontrols.com.

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

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