

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 photo-cells. 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 | |

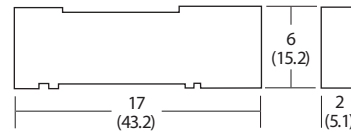
ADDITIONAL INFORMATION

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)