

Catalog Number	
Notes	Type

FEATURES

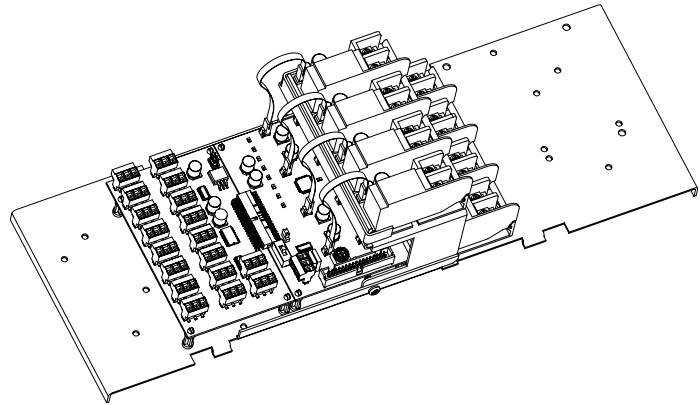
The Synergy Relay Power Module is available in two versions, the SYPM 8L DSO and SYPM 8L. Both configurations provide eight mechanically latching, individually replaceable relays, one On-Off-Auto manual override switch, one removable terminal block for remote override and eight relay status LEDs. The relays are rated for up to 30A @ 277V, 18000 SCCR, and up to 20A @ 347V.

The SYPM 8L version includes an Input/Output module to expand the relay module's capability to include eight 0-10VDC outputs to control dimmable ballasts, eight 3-wire switch inputs to override the outputs, eight pilot light outputs to power switch indicator LED's and two 0-10VDC inputs for photocells.

- Accepts maintained, momentary or alternate action switches and pilot lights
- Mounts in standard Synergy enclosure
- Available with circuit breakers if used with the Synergy SYPMB 6D Dimming Module
- Relays are individually replaceable
- Relays are mechanically latching
- Low voltage terminal blocks are removable for easy installation and troubleshooting
- Optional Input/Output module (SYPM 8L includes this module)
- 30A, 18000 SCCR @ 277V relay is one of the best in the industry
- Relay is also rated for up to 347V, 20A for use in Canada
- 250,000 cycles @ 30A load
- Three year warranty on relays
- UL and CUL listed

Lighting Control System
Relay Power Module

SYPM 8L



ORDERING INFORMATION

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

Example: **SYPM 8L**

SYPM		8L					
Series		Type		Breakers / voltage			
SYPM	Module for use with external circuit breakers	8L	Relay module with eight mechanically latching, individually replaceable single-pole 30A relays @ 120, 230 and 277 volts, and 20A @ 347 volts. Eight low voltage dry contact inputs and eight 0-10VDC dimming outputs standard.	(blank)	No circuit breakers	DSO	Digital Switching Only. No switch inputs or 0-10VDC dimming.
SYPMB	Module with circuit breakers			B1	Six 20A, 120V circuit breakers		
				B2	Four 20A, 277V circuit breakers		
				B3	Six 15A, 120V circuit breakers		
				B4	Four 15A, 277V circuit breakers		
				B6	Four 20A, 347V circuit breakers		
				B7	Four 15A, 347V circuit breakers		

SYPM 8L Relay Power Module

SPECIFICATIONS

MECHANICAL

- Chassis: all components mounted to steel back plane, keys into enclosure via tab and slot, secures with provided screws.

ENVIRONMENTAL

- Operation temperature: 32-104°F (0-40°C). Storage temperature: 0-160°F (-18-71°C). Humidity: 10-90% non-condensing.

ELECTRICAL

- Relay Outputs: 30A @ 277V Ballast, 20A @ 120V Tungsten, 20A @ 347V Ballast, 18000A SCCR @277V, Single Pole Single Throw Contacts, Mechanically Latching
- Relay Load Wiring: One #8 - #14 or two #8 - #14 AWG maximum
- Manual Override: One ON-OFF-AUTO manual override switch and one removable terminal block that accepts a remote override contact closure from external device such as AV System, Building Automation System, etc.
- Inputs/Outputs: (SYPM 8L version only)

20 and 24VDC accessory power, 2.5A maximum per cabinet

All Digital Stations, Pilot Lamps, Sensors, etc operate from this power and total accessory load MUST NOT exceed 2.5A per cabinet.

Total load of all eight pilot light outputs per module @ 20V and 24V - 60ma per pilot output, or 480ma max per module.

5V Pilot Lamp Output

216ma max per output, 216ma max per module.

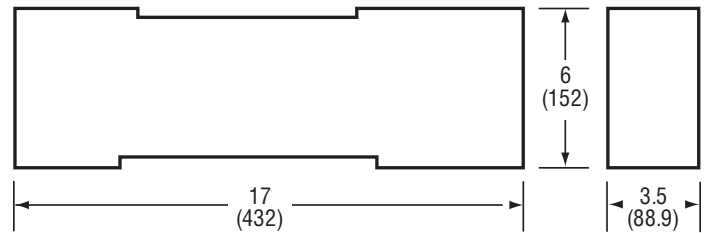
0-10vdc Dimming Output

maximum 25ma per output

DIMENSIONS

All dimensions are inches (millimeters).

Shipping weight = 4 lbs. (1.9 kg)



CIRCUIT BREAKERS

Breaker Options	Number of Breakers	AIC Rating		
		120V	277V	347V
B1 ¹	6	10,000	N/A	N/A
B2 ²	4	64,000	14,000	N/A
B3 ¹	6	10,000	N/A	N/A
B4 ²	4	64,000	14,000	N/A
B6 ²	4	N/A	N/A	14,000
B7 ²	4	N/A	N/A	14,000

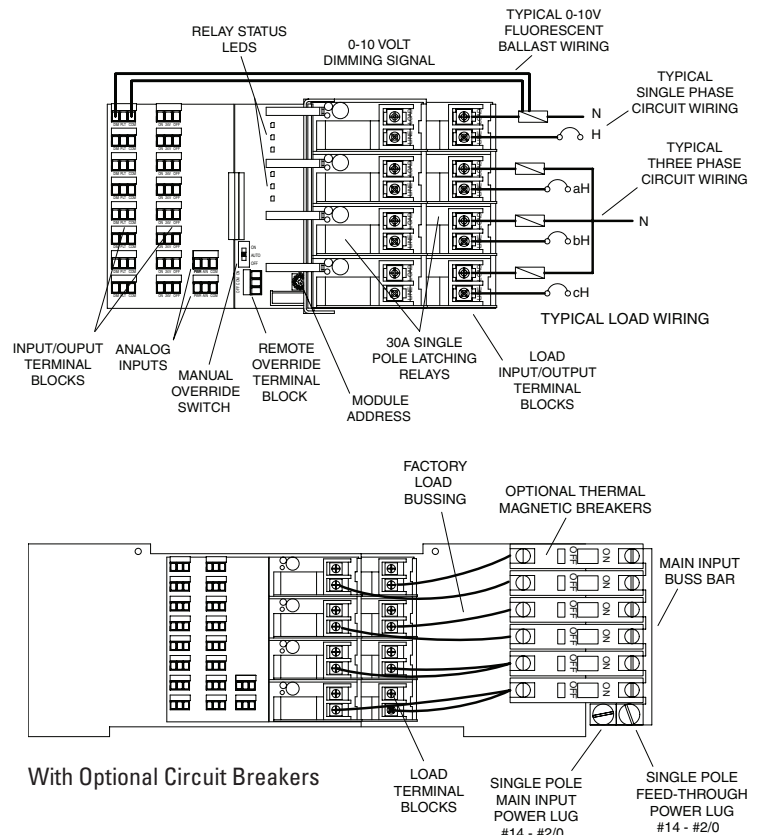
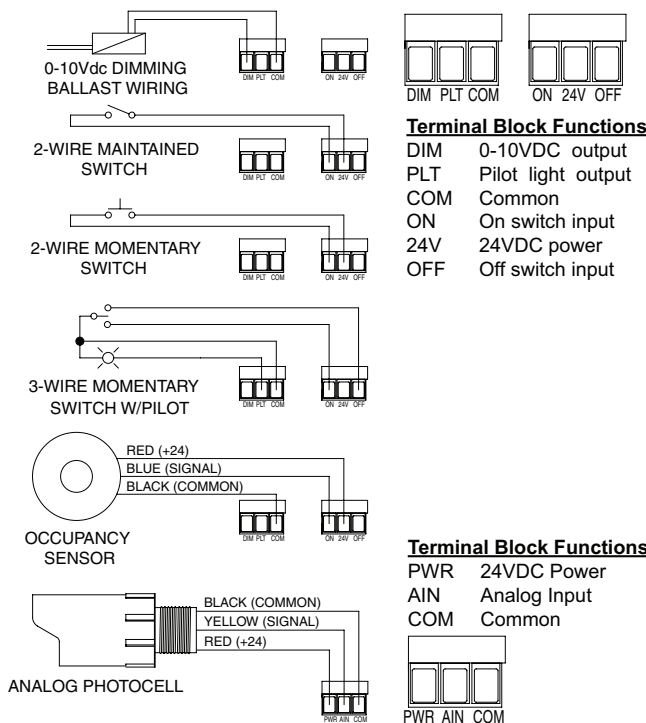
Notes:

1 Circuit breakers 5 & 6 supply two relays. (For details, see installation instructions.)

2 Each circuit breaker supplies two relays. (For details, see installation instructions.)

FUNCTIONAL DIAGRAMS - (SYPM 8L SHOWN)

WIRING DIAGRAMS



An AcuityBrands Company

Sheet #: SYPM 8L

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