

> DESCRIPTION



Schneider Electric LPS Lighting Control Relay Panels offer a practical design for meeting energy codes requirements in smaller commercial spaces. Panels are available pre-assembled with 4, 8, 16, 24, or 32 relays. They consist of relays, time scheduler, panel controller, power supply, and NEMA 1 cabinet and cover.

LPS reduces energy use by automatically shutting off lights in response to a scheduled time event from its built-in time controller or in response to an external control device, such as a keypad switch, occupancy sensor, or photocell. These panels are ideal for use in smaller commercial applications, such as small strip retail and office spaces, where a centralized building management system is not practical.

The LPS time controller includes a full 365-day, 7-day repeating clock with full 24-hour scheduling functions. Daylight Saving Time (DST) is supported, as well as astronomic control for exterior lighting. The LPS is fully compatible with Schneider Electric occupancy sensors, photosensors, and SERPWS keypads.

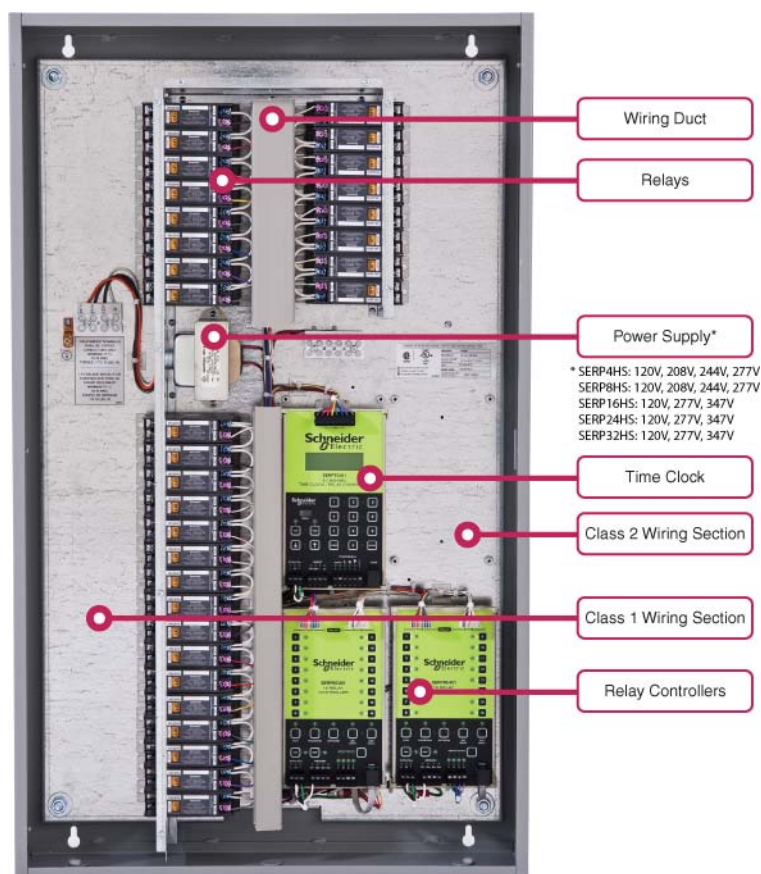
> FEATURES

- Stand-alone lighting control system meets ASHRAE90.1 and CA Title 24
- Individual heavy duty, mechanically latching, 20A relays
- Built-in time controller supports 8 independent zones
- Time retained during power outages for up to 30 days; nonvolatile program memory
- Two universal switch inputs
- Individual relay overrides can directly control each relay
- Easy to program interface
- 2-wire relay used for monitoring and control
- No derating for inductive lighting loads
- Manual operation lever with ON/OFF indicator built-in for easy maintenance
- Screw terminals on load and control sides
- UL listed
- Full 365-day, 7-day repeating clock with event priorities

> ORDER INFORMATION

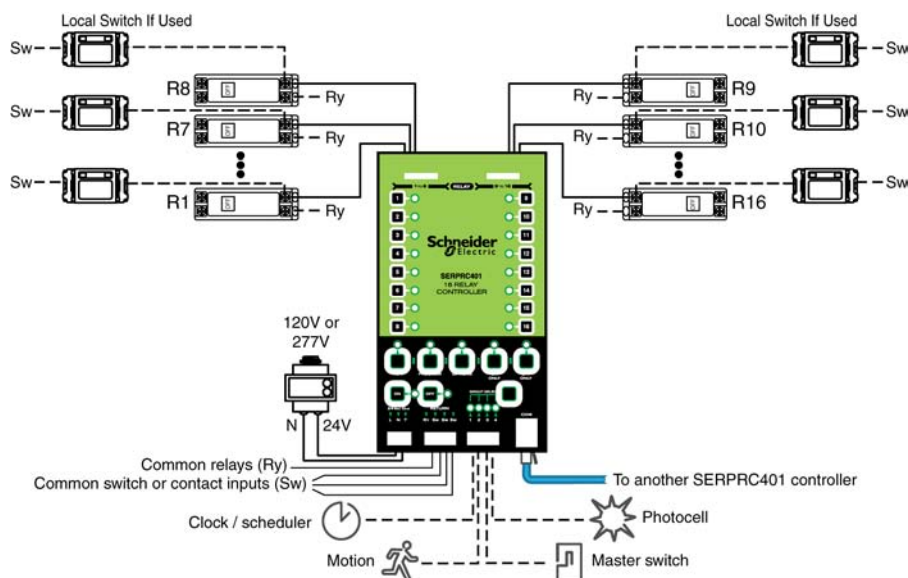
Relay Panel Description	Relay Panel Catalog Number
4 HID relays, surface mount	SERP4HS
8 HID relays, surface mount	SERP8HS
16 HID relays, surface mount	SERP16HS
24 HID relays, surface mount	SERP24HS
32 HID relays, surface mount	SERP32HS
Accessory Description	Accessory Catalog Number
Flush Cover for SERP4HS or SERP8HS	SERPFLCS8
Flush Cover (Hinged) for SERP4HS or SERP8HS	SERPFLCS8H
Flush Cover for SERP16HS	SERPFLC16
Flush Cover for SERP24HS or SERP32HS	SERPFLC32
Key-type switch	SERKWS
Rocker-type switch	SERPWS
Wall switch mounting bracket	SERPWSMB
Wall switch with 1 gang, 1 button	SERPWS1G1B
Wall switch with 1 gang, 2 button	SERPWS1G2B
Wall switch with 1 gang, 3 button	SERPWS1G3B
Wall switch with 2 gang, 4 button	SERPWS2G4B
Wall switch with 2 gang, 6 button	SERPWS2G6B
Wall switch with 3 gang, 9 button	SERPWS3G9B
Wall switch with 3 gang, 12 button	SERPWS3G12B
Wall switch with 5 gang, 15 button	SERPWS5G15B
Wall switch with 6 gang, 18 button	SERPWS6G18B
Wall switch filler plate	SERPWSFP

> PANEL LAYOUT



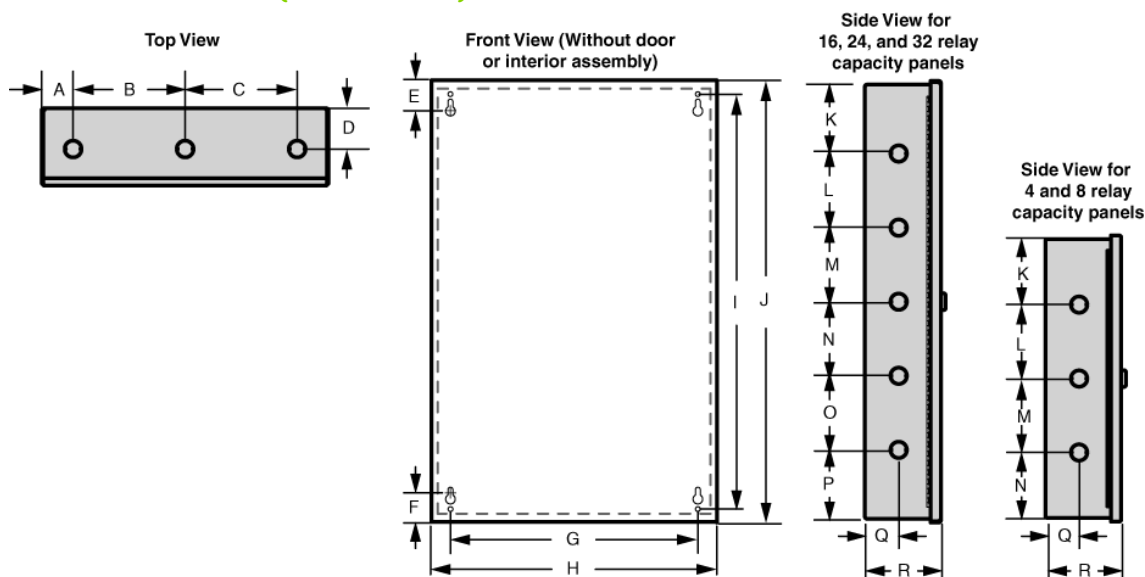
NOTE: The relay lighting control panel is shown without the Class 2 voltage covers for illustration purposes only.

> WIRING DIAGRAM



> DIMENSIONS

Mounted Enclosure Dimensions (Without Doors)

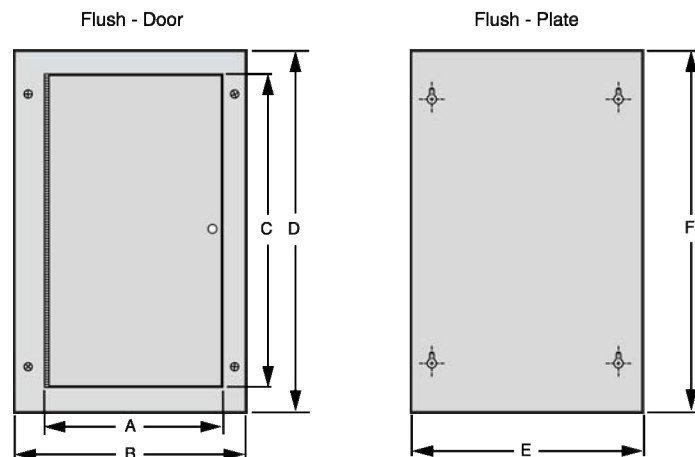


Measurements – mm (in.)																		
Relays	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
4 or 8*	42 (1.7)	149 (5.1)	149 (5.1)	46 (1.8)	N/A	N/A	330 (13)	381 (15)	345 (13.6)	381 (15)	90 (3.5)	101 (4)	101 (4)	90 (3.5)	N/A	N/A	46 (1.8)	101.6 (4)
4 or 8**	42 (1.7)	149 (5.1)	149 (5.1)	46 (1.8)	N/A	N/A	279.4 (11)	305 (12)	228.6 (9)	305 (12)	90 (3.5)	101 (4)	101 (4)	90 (3.5)	N/A	N/A	46 (1.8)	101.6 (4)
16	42 (1.7)	149 (5.1)	149 (5.1)	46 (1.8)	N/A	N/A	330 (13)	381 (15)	556 (21.9)	592 (23.3)	94 (3.7)	101 (4)	101 (4)	101 (4)	101 (4)	94 (3.7)	46 (1.8)	101.6 (4)
24 or 32	60 (2.4)	194 (7.6)	194 (7.6)	60 (2.4)	27.87 (1.10)	27.05 (1.08)	406.8 (16)	508 (20)	N/A	850 (33.5)	55 (2.2)	190 (7.5)	N/A	N/A	190 (7.5)	55 (2.2)	55 (2.2)	101.6 (4)

* Without flush cover.

** With flush cover SERPFLCS8 or SERPFLCS8H.

Flush-Mounted Door Dimensions



Measurements – mm (in.)						
Relays	A	B	C	D	E	F
4 or 8	229 (9)	356 (14)	229 (9)	356 (14)	356 (14)	356 (14)
16	349 (13.7)	493 (19.4)	582 (22.9)	704 (27.7)	493 (19.4)	704 (27.7)
24 or 32	478 (18.8)	620 (24.4)	838 (33)	962 (37.9)	620 (24.4)	962 (37.9)

> SPECIFICATIONS

Relay Panel			
Enclosures and steel doors		Coated with ANSI/ASA 61 gray baked enamel	
Panel construction		4, 8, and 16 relay - cold-rolled 16 gauge steel 24 and 32 relay - cold-rolled 14 gauge steel	
Removable mounting plate		Yellow zinc plated	
Protection plates		Yellow zinc plated	
Standards		UL, cUL, CSA	
Power Supply			
4 or 8 HID relay panels (surface or flush mounted)		120V, 208V, 244V, or 277V	
16, 24, or 32 HID relay panels (surface or flush mounted)		120V, 277V, or 347V	
Heavy Duty HID Relay			
Poles	UL Rating	CSA Rating	Isolated Auxiliary Contact
1	20A / 300VAC	20A / 347VAC	N/A
2	20A / 480VAC	20A / 347VAC	N/A
Characteristics			
Electrical Life		60,000+ operations	
Mechanical Life		120,000+ operations at 20 cpm	
SCCR		14,000A / 277VAC single pole 5,000A / 277VAC double pole	
Maximum Operating Speed		20 cpm at nominal load	
Operate Time		Approximately 20 msec.	
Release Time		Approximately 20 msec.	
Initial Insulation Resistance		More than 100MΩ at 500VDC	
Dielectric (between open contacts)		1,694V for one minute	
Strength (between contacts and coils)		2,500V for one minute	
Ambient Temperature		-22° F to 122° F (-30° C to 50° C)	
Temperature rise (at normal voltage)		Maximum 149° F (65° C)	
Contacts			
Rating		UL Rating	CSA Rating
General Use	1 pole	20A 300V AC	20A 347V AC
	2 pole	20A 480V AC	20A 347V AC
Electric Discharge	1 pole	20A 300V AC	20A 347V AC
	2 pole	20A 300V AC	20A 347V AC
Tungsten		2,400W 120V AC	2,400W 120V AC
Motor Load		1/2 HP at 110-125V AC	1/2 HP at 110-125V AC
		1-1/2 HP at 220-227V AC	1-1/2 HP at 220-250V AC
Coil			
Operating Voltage		18V to 30V pulsed DC, reversible polarity 18V to 30V half-wave rectified AC, reversible polarity	
Minimum Input Duration		8M sec.	
Nominal Operating Current		350mA*	
* Simultaneous operation of multiple units: 350mA times the number of units operated simultaneously. <i>NOTE: Continuous input power supply to the relay coil prevents the operation lever from being switched manually.</i>			
Mechanical Requirements			
Terminal Capacity	Main Contact Terminal	AWG #12 to #14 Copper Wire	
	Input Terminal and auxiliary contact terminal	AWG #16 to #20 Copper Wire	
Terminal Tightening Torque	Main contact terminal	6.9 to 10.4 inch-lbs	
	Input terminal and auxiliary contact terminal	4.3 to 6.9 inch-lbs.	