



Specifications:	ACSPR-SCS4-2009-RT2 (rocker switch), ACSPR-SCS4-2009K-RT2 (key switch),
General	
Power Rating:	120VAC, 60Hz, 20A 2400W
Actuation Switch:	Front panel rocker or key switch with momentary contacts (normally open SPST) plus rear barrier strip termination blocks for momentary (normally open) remote switches.
Alarm Interface:	Lock on, lock off and switch lock functions for alarm system or master control panel applications.
External Control Connections:	Plug-in barrier strip terminal blocks for Alarm Interface, RPC Trigger, Remote Switches.
Termination:	9 foot cord with NEMA 5-20P plug
EMI/RFI Filter:	19dB@500kHz, 42dB@30MHz
Safety Agency Approvals:	ETL Listed in US and Canada to UL Standard 60065.
Mechanical	
Dimensions / weight:	19"W x 1.75"H (1RU) x 9"D / 12 lbs.
Receptacles: (9)	Front: One single unswitched - always on Rear: Two single unswitched - always on, Step 1: One single switched, Step 2: One single switched Step 3: One duplex switched Step 4: One duplex switched Step 5 & 6: Dry contact (normally open) (rated 3A) for external RPC units.
Dry Contact Outputs: (RPC Trigger)	
Delay between steps:	0.5 - 10 seconds (front screwdriver adjust)
Chassis construction:	Steel with black powder epoxy paint finish.
Surge Suppressor	
Maximum Surge Current	72,000A (exceeds UL1449-2 6000V, 3000A).
Initial Clamping Voltage	205V, UL rating 330V
Endurance	IEEE C62.41-1991, B3 (C1), Pulses (lifetime): 1kv≥1,000,000; 3kv≥100,000; 6kv≥5000
Transient Noise Reduction	25dB@100kHz, 50dB@1MHz
Response Time	Less than 5 nanoseconds
Protection Mode	Line to neutral, zero ground leakage
UL1449-2 Adjunct Results	1000 surges, 6000 volts, 3000A, C1 and B3 waveforms (IEEE C62.41), No failures
Federal GSA specs (1996)	Grade A, Class 1, Mode 1
Diagnostic LED's	Top (Green): On = Ground verified, Center (Green): On = Protection active, Bottom (Red): On = Protection reduced*.
Applicable Standards:	IEEE standard 587-80 A & B, IEEE standard C62.41-1991, IEC 1000-4-5-1995 (IEC 801-5).

Accessories (order separately)
Remote Switches (momentary) Series RPSW-M, RPSW2-M, RPSB-M, RPSB2-M

**Lowell's Triple Clamping Redundancy is exactly that - triple clamping for triple protection. This means that if one section of the suppressor has 'reduced protection', there are two additional sections available to safeguard equipment. Device is endurance tested: Grade A, Class 1, Mode 1.*

Description

Series ACSPR-SCS4-2009-RT2 is a 20A rackmount 4-step sequential power panel with surge suppression, alarm interface, and dry contact closures for triggering remotely located power controls. Series is ETL Listed in the US and Canada to UL Standard 60065. Models have a power rating of 120V AC, 60Hz/20A with EMI/RFI filtering and include three unswitched single outlets (one front, 2 rear), six rear switched outlets (2 single, 2 duplex) for sequential activation of connected equipment and two (2) dry contact closures for triggering RPC Series remote power controls (order separately). Series is offered with rocker or key switch (K) activation.

Both sequential power panels are engineered to provide time delayed 4-step activation and de-activation of equipment that is directly plugged in to the unit. The adjustable delay between sequenced steps is located on the front of the unit and may be set at 0.5 to 10 seconds. Adjustments are made using a small screwdriver to avoid unintended sequence changes. Models are additionally equipped with two remote trigger outputs that allow equipment in a remote location to be sequentially turned on/off (steps 5&6) using remote power controls.

Surge suppressor provides GSA Grade A - Mode 1 - Class 1 endurance along with UL1449-2 and ANSI C62.41 surge suppression compliance. It defeats surges up to 72,000A using Lowell's Triple Clamping Redundancy™ (TCR) technology.

Slim rackmount 1RU devices feature color coded LED's on the front for status of connected equipment. The rear includes a terminal block for connection to optional remote power controls and switches (momentary style - order separately). Lowell offers a wide selection of momentary switches with decora-style wall plate or 1RU rackmount panels. The rear panel includes a terminal block so that system switches can be overridden for life safety system applications where fire code mandates an alarm interface. Choose models with rocker or keyswitch (suffix -K) activation. All terminate with a nine foot cord and NEMA 5-20P plug.

A & E Specifications

Sequential AC power panel shall be Lowell Model _____ (ACSPR-SCS4-2009-RT2, ACSPR-SCS4-2009K-RT2). It shall be ETL Listed with a power rating of 120VAC, 60Hz/20A with EMI/RFI filtering and nine outlets (3 unswitched, six switched) to sequentially activate / deactivate equipment in four steps with a delay of 0.5 to 10 sec. It shall have two dry contact closures for triggering remote power controls (steps 5 & 6). The surge suppressor shall provide GSA Grade A - Mode 1- Class 1 protection. Rackmount 1RU chassis includes color coded LED's and front activation rocker or key switch (suffix -K). Optional remote switches with momentary closure may be used; specify Lowell EMI Series RPSW-M or RPSB-M.



ACSPR-SCS4-2009-RT2 Series

19" Rackmount AC Power with Sequencer, Surge & Remote triggering

POWER

Red LED
 FLASHING = Down cycle in progress.
 STEADY ON = Down cycle completed (system off).

Green LED
 FLASHING = Up cycle in progress.
 STEADY ON = Up cycle completed (system on).

Surge suppressor LEDs

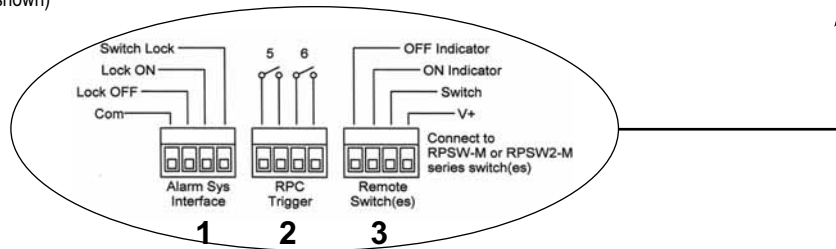


Front (ACSPR-SCS4-2009-RT2 shown)

Green LED's - Indicate progress of UP / DOWN sequence (4 steps + trigger steps 5 & 6)
 Delay - Recessed trim pot with screwdriver adjust.



Rear (ACSPR-SCS4-2009-RT2 shown)



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Alarm System Interface Detail

If required by local building code, facility usage, or the Fire Marshal; the system switches can be overridden and the system controlled by contact closures provided the fire alarm panel or other similarly installed device. A maintained contact between the 'com' terminal and any of the terminals shown will provide the following functions.

Lock Off: A maintained contact between the 'com' terminal and the 'lock off' terminal will turn the system off and keep it off regardless of other switch activations. If the system is already off, it will be kept off.

Lock On: A maintained contact between the 'com' terminal and 'lock on' terminal will turn the system on and keep it on regardless of other switch activations. If the system is already on, it will be kept on.

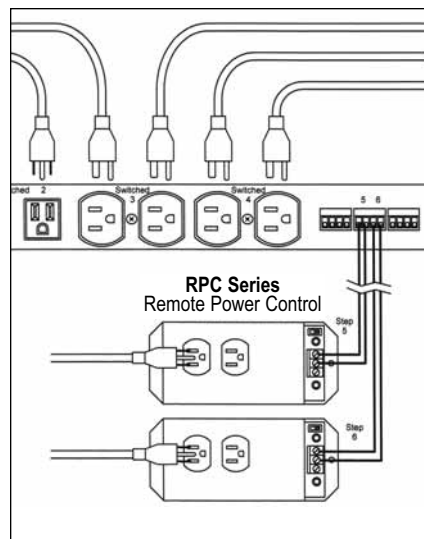
Switch Lock: A maintained contact between the 'com' terminal and the 'switch lock' terminal will lock the system in its current state, either on or off, regardless of any other switch activations. *Note: Switch lock function is overridden by External Trigger voltage.*

Caution: Do not allow alarm system to make more than one of the above described contacts at the same time. Controller board damage may result.

External Trigger Detail

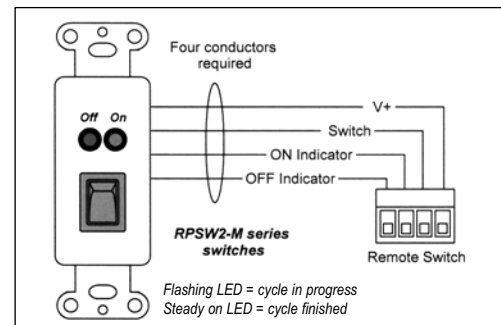
The trigger outputs allow equipment in a remote location to be sequentially turned on/off using remote power controls RPC Series - order separately).

Multiple RPC units can be connected to outputs 5 and 6 (up to 60 each or up to the limits of the electrical panel).

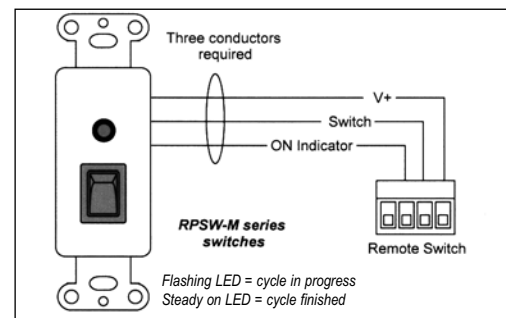


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Remote Switch Connection Detail



Momentary Switches with 2 LED's
 Wallplate Series RPSW2-MP (white), RPSB2-MP (black),
 1RU panel Model RPSB2-MR



Momentary Switches with 1 LED
 Wallplate Series RPSW-MP (white), RPSB-MP (black),
 1RU panel Model RPSB-MR

Maximum wire distances
 24ga.: 20,000 ft. (approx. 3.5 miles), 22ga.: 31,200 ft. (approx. 5.5 miles), 18ga.: 76,800 ft. (approx. 13.5 miles)

AC Rackmount 19" EIA

AC Strips Rackmount Vertical

AC Loadcenters (sequenced)

AC Surge Protection / Filtering

AC Remotely Controlled

Low Voltage Sequencers Accessories

Panels with Cord