REMOTE INSTALLATION

The **ZR1** remote provides Zone Level and Source Selection, allowing local control from inside the zone. Two ZR1 remotes may be used (use only one for each Zone). If only one of the two controls is used, you may cover the unused control with one of the hole plugs provided in the kit. If you require one ZR1 remote to control both Zones, simply wire the ports in parallel. This may be done with selector only, volume only or both. If only one of the two controls is wired in parallel, the other is still available for a second remote.

When paralleling one remote across multiple CP64Ss, all three control pins must be wired, including the shields.

Power to the CP64S or CP52S should be *off* until all connections are made. It is important to ensure that the Remote Ports are not subjected to sustained voltages outside the range of 0 to 5 volts DC or high levels of static. Inputs are protected, however, caution is the better part of... you know. It is a good idea to install the wiring, connect it to the remote assemblies and then make the final connections at the CP unit. Do *not* short Vr1 or Vr2 pins to ground. These pins *are* current limited, however, excess heat is generated in the 5 volt supply if a short occurs. *Never subject the Vr1 or Vr2 pins to voltages above 5 volts.*
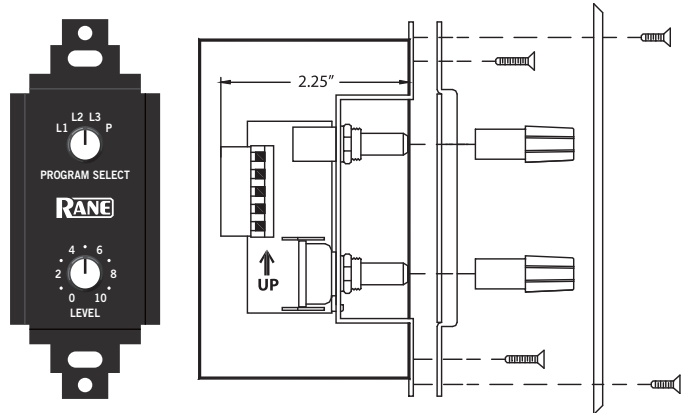
EUROBLOCK CONNECTIONS

When wiring to Euroblocks, a minimum wire gauge of 22 is preferred for reliability. If the ground or shield wire is left shorter, it acts as a strain relief for the other wires. Cable with a flexible jacket is easier to use and less likely to damage the connections. Avoid stripping excess insulation. Inspect wires for nicks that may lead to wire breakage. Fully insert each wire in the appropriate socket and tighten the screw.

REMOTE MOUNTING

The ZR1 remote mounts in a standard U.S. electrical box with a minimum depth of 2.25" (5.5 cm). Be sure to note the wire color of each input in order to facilitate correct wiring to the CP unit. Connect each wire to the 5-pin connector by fully inserting it in the correct socket and tightening the screw. Make sure wires are free of nicks and that the cable jacket is stripped back sufficiently to allow it to lie in the electrical box with the remote assembly inserted. Use the flat head #6 screws supplied with the kit to mount the remote assembly and silk-screened front panel to the electrical box (see above diagram). Note the "UP" arrow screened on the printed circuit board of each remote (mount it pointing *up*).

Install each knob so that the line on the knob is properly aligned with the silk-screening on the front panel of the remote assembly. Install any Decora plate of your choice. For a secured installation, you may wish to leave the knobs off and use a blank Decora plate to cover the remote after adjustment.

Wire lengths of up to 1000 feet are possible. A brief list of suitable wire types is provided in the section on Wire Types.

CP64S REMOTE PAGE ZONE ASSIGN

Euroblocks provide remote switching of Page Zone Assign for each of the Page 1 and Page 2 inputs. Two momentary (doorbell) switches allow push-to-talk functionality. Push both to page in both zones. If your application requires one of the two Page Assign switches to control both Page 1 and Page 2, simply wire all Page 1 and Page 2 ports in parallel. Only three wires are required for each pair of switches (Z1, Z2 & GND).

Wiring is internal pull-up, active low, switch closure to ground, or 5 volt TTL logic.

11 = Off
10 = Z1 (Zone 1)
01 = Z2 (Zone 2)
00 = Both

WIRE TYPES

Variations in wire type do not greatly affect the performance of the remote controls. However, 22-gauge stranded wire with a flexible jacket is recommended. You may use 5-conductor unshielded remote control signal cable for shorter runs (less than

200 ft.) or 4-conductor (2 pair) shielded remote control signal cable (use the shield as the GND return) for longer runs (200 to 1000 ft.). The type of wire required is influenced by your installation and local electrical codes.

Rane Corporation does *not* provide or source cable. Please contact your local retail or wholesale outlet, *not* the factory. The following is a short list of suitable cable types:

CONSOLIDATED ELECTRONIC WIRE AND CABLE
Plenum cable:
Unshielded remote control signal cable CAT. # 9896
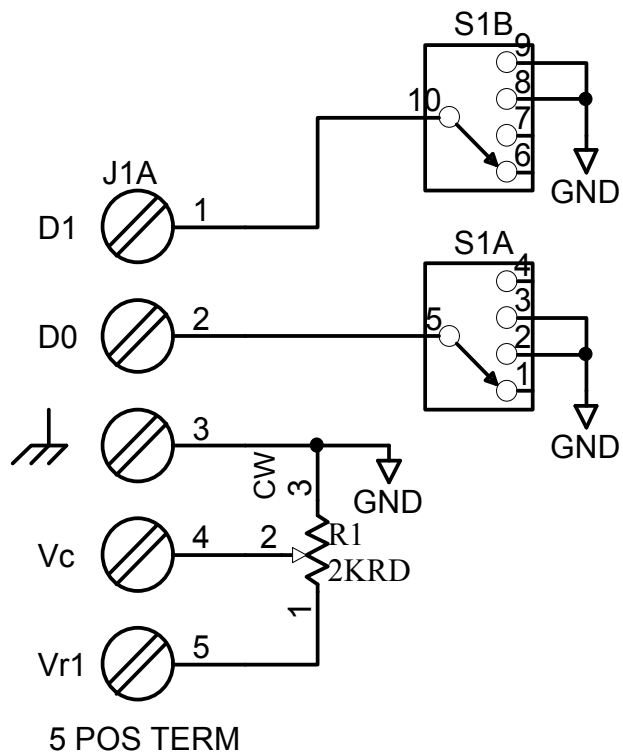Shielded remote control signal cable CAT. #9877, CAT. #9852

WEICO WIRE & CABLE INC.
Communication and control cable:
Multiconductor, unshielded CAT. #7606

ALPHA
Communication and control cable:
Multiconductor, unshielded CAT. #1175C

BELDEN
Unshielded remote control signal cable CAT. # 88741
Shielded remote control signal cable CAT. # 88723

5 POS TERM

ZR1 Specifications

Parameter	Specification	Limit	Conditions/Comments
Max Cable Length: Shielded	1000 feet / 305 meters		
Max Cable Length: Unshielded	200 feet / 60 meters		
Rear Connection	5-pin Euroblock; 22-gauge stranded wire preferred		
Unit: Size	4.1″H x 1.62″W x 2.25″D		10.4 x 4.1 x 5.7 cm
...Weight	1.6 oz		46 g
Shipping Size	9.6″ x 6″ x 3.2″		24.4 x 15.2 x 8.1 cm
...Weight	.38 lb		170 g

All features & specifications subject to change without notice. 22963