

# HC900 Remote Termination Panel (RTP) For Relay Outputs

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### Summary

The Remote Termination Panel (RTP) provides an easy way to connect the HC900 controller to the field wiring. The RTP integrates some of the typical externally connected components, reducing wiring and setup time. It also minimizes the need for multiple wires under a single screw connection by expanding the connectivity of the shared terminals of the relay output modules.

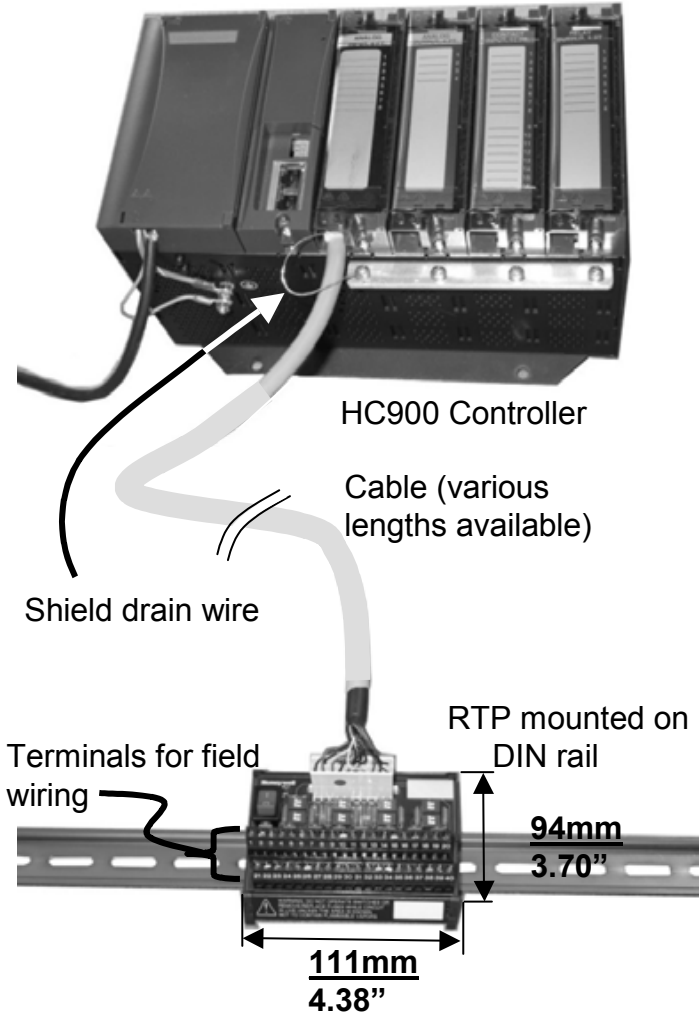
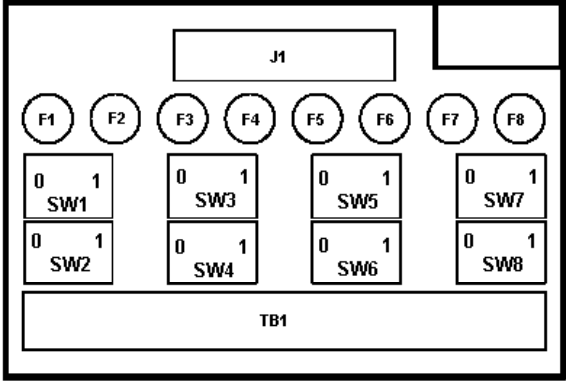


Figure 1 Example installation

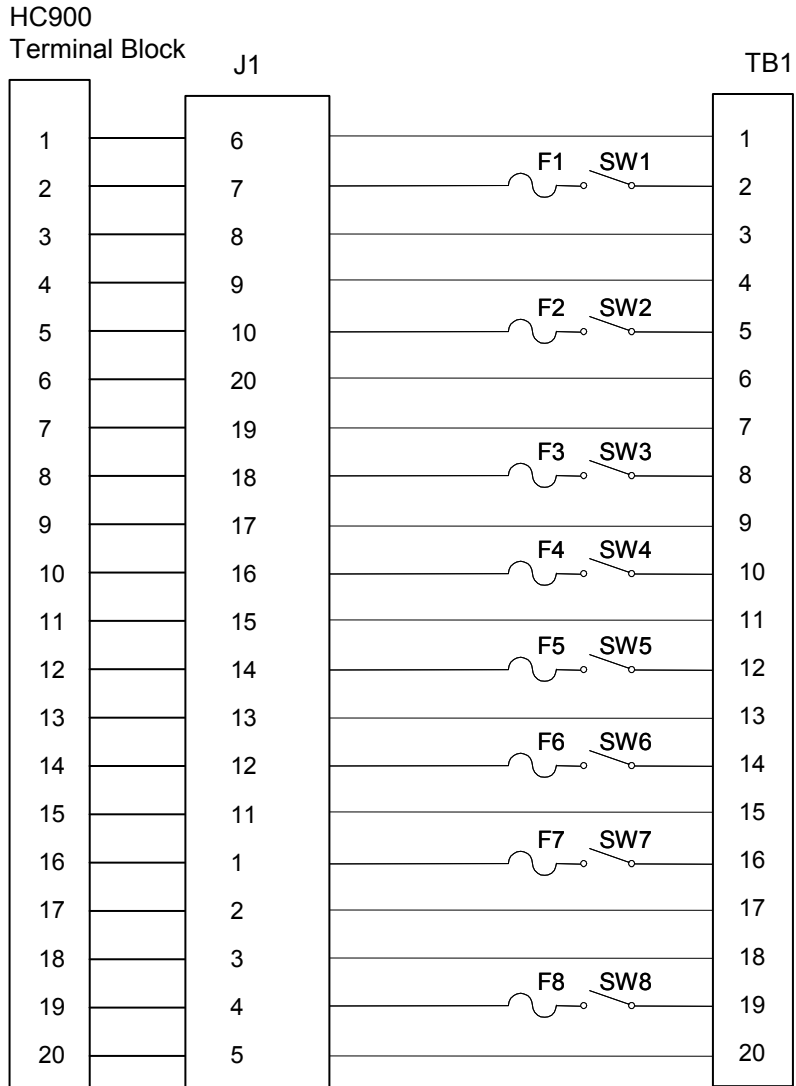
Relay Output	
Step	Action
1	<p><b>ATTENTION: RTP and cables are intended for permanent installation within their own enclosure.</b></p> <p><b>Mount RTP cable assembly to HC900 Controller</b> (Figure 1).</p> <ul style="list-style-type: none"> <li>Remove appropriate key tabs from terminal block to allow mating with the module. See HC900 Hybrid Controller Installation and User guide 51-52-25-107 for details.</li> <li>Connect desired cable to relay output module at controller. Choose from: <ul style="list-style-type: none"> <li>900RTC-H010 Remote Terminal High Voltage Cable assembly, 1.0 meters long</li> <li>900RTC-H025 Remote Terminal High Voltage Cable assembly, 2.5 meters long</li> <li>900RTC-H050 Remote Terminal High Voltage Cable assembly, 5.0 meters long</li> </ul> </li> </ul> <p><b>ATTENTION:</b>  <b>Cable power is limited to 24 Amps per module at 60C (140 degrees F) and 32 Amps at 54C (129 degrees F).</b></p> <ul style="list-style-type: none"> <li>Install relay output module label onto the module connector cover.</li> <li>Connect shield drain wire to the grounding bars at the base of the HC900 rack. All field-wiring shields must be grounded as described in the shield grounding section of the HC900 Hybrid Controller Installation and User guide 51-52-25-107.</li> </ul>
2	<p><b>Mount RTP to DIN rail.</b></p> <ul style="list-style-type: none"> <li>Latch to rail. See page 5.</li> <li>Connect cable to RTP.</li> </ul>
3	<p><b>Set switch positions SW1 through SW8.</b></p>  <p>The diagram shows a rectangular module with a terminal block J1 at the top center and TB1 at the bottom center. A row of eight fuses (F1-F8) is positioned above a grid of eight switches (SW1-SW8). Each switch is a two-position toggle switch with '0' and '1' markings. The switches are arranged in two rows of four.</p> <p>Fuses: 6.3A Time Lag  Wickmann part #3741630041  UL/CSA approved for 250V</p> <p>Module Removal / Insertion Under Power (RIUP) is supported by turning off all eight switches to allow removal of the module from the rack without causing an arc. Please reference the HC900 Hybrid Controller Installation and User guide (51-52-25-107) for more details.</p> <p>See page 4 for RTP internal schematic.</p>

Relay Output	
Step	Action
4	<p>Connect field wiring.</p>

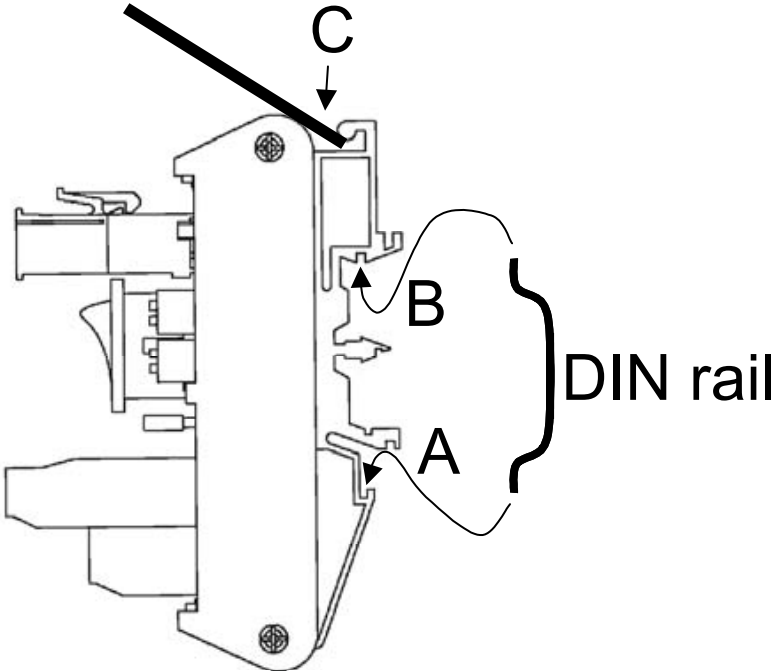
#### RTP Cable wire positions and colors

Twisted Pair Number	HC900 Module TB Position	RTP J1 Plug Connector	Color
1	1	6	Black
	2	7	Red
2	4	9	Black
	5	10	White
3	6	20	Black
	7	19	Green
4	9	17	Black
	10	16	Blue
5	11	15	Black
	12	14	Yellow
6	14	12	Black
	15	11	Brown
7	16	1	Black
	17	2	Orange
8	19	4	Red
	20	5	White
9	3	8	Red
	8	18	Green
10	13	13	Red
	18	3	Blue

# RTP Internal schematic



### Latch/Unlatch RTP to rail

Step	Action
1	Mounting screws must be installed at each end of the mounting rail, with additional screws approx. every 8"(203mm) to prevent twisting of the rail.
2	<p>Insert one side of DIN rail at A.</p>  <p>The diagram illustrates the installation of a DIN rail onto a device. The device is shown in profile. A DIN rail is being inserted from the right. Point A is the bottom edge of the rail where it meets the device. Point B is the top edge of the rail where it meets the device. Point C is a small tab on the top of the rail. A bracket on the right side of the rail is labeled 'DIN rail'.</p>
3	Insert other side of DIN rail at B, and push B over the rail to snap into place.
4	To remove, using slot screwdriver to lift C up gently (plastic is fragile) to disengage at B. Lift up and over rail, then disengage at A.

### ATTENTION:

Cable power is limited to 24 Amps per module at 60C (140 degrees F) and 32 Amps at 54C (129 degrees F).

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## Warranty/Remedy

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