



Practical Practices PP01-05K

Releasing Two XV Controllers simultaneously

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From time to time, we receive calls for Design Support involving the actuation of two XV Controllers simultaneously.

Applications for this include two areas being separated by some distance, but connected. An example is a commercial kitchen application, with a remote electrostatic precipitator.

The following page contains a wiring diagram for simultaneous activation of two XV Control Systems using one Scorpio Panel.

Both XV Control Systems are using mechanical link detection. Both XV Control Systems can also be activated electrically, using the 83-100034-001 24Vdc Electric Solenoid.

Whichever XV systems activates from link detection or manual mechanical release, the other XV is activated from the Scorpio Control Panel. Both XV Control Systems utilize microswitches, part number 87-120047-001 for release supervision and actuation supervision through the remote manual releasing loop of the Scorpio (terminals 3 and 4).

Terminals 28 and 29 (releasing) are tripping XV Number 2.

Terminals 30 and 31 (releasing) are tripping XV Number 1.

Terminals 3 and 4 (remote manual release) are wired through XV Number 1, then to XV Number 2. The End-of-line (EOL) resistor is in XV Number 2.

If XV Number 1 trips due to a link or mechanical release, both microswitches change. Switch XV 1-1 goes to "OPEN," not allowing current flow through the solenoid. Switch XV 1-2 goes to "CLOSED," tripping the remote manual release circuit of Scorpio (Terminals 3 and 4), putting the Scorpio into ALARM and tripping XV Number 2.

If XV Number 2 trips due to a link or mechanical release, both microswitches change. Switch XV 2-1 goes to "OPEN," not allowing current flow through the solenoid. Switch XV 2.2 goes to "CLOSED," tripping the remote manual release circuit of Scorpio (Terminals 3 and 4), putting the Scorpio into ALARM and tripping XV Number 1.

Ensure the Scorpio Control Panel is programmed for instant discharge upon actuation of Remote Manual Release. See Manual, 06-235793-001 for instructions on installing Scorpio.

