

What voltage is coming from the Relay Output

This tech note applies to all XL Displays.

PROBLEM

What voltage is coming from the relay output on the XL Logic board?

SOLUTION



WARNING: XL products are not designed or intended for control applications, and MUST NOT be used for control applications under any circumstances. Outputs (e.g. relays) are provided for annunciation only, and MUST NOT be used for control purposes.



CAUTION: Keep mains-connected wiring (including relay output wiring) separate from signal and I/O wiring. Use the left knockout(s) for mains-connected wiring (including relay output wiring) and the right knockout(s) for signal and I/O wiring.



CAUTION: Carefully route relay output wiring to keep it away from live electronic components inside the enclosure.



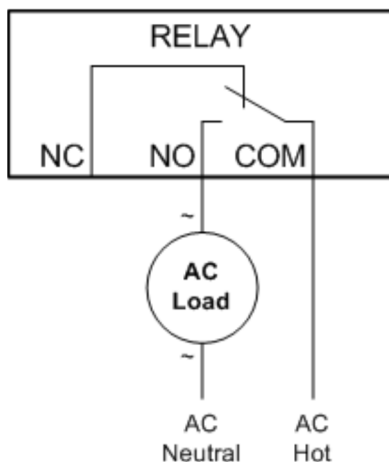
ATTENTION: Refer to the **Specifications** chapter for contact ratings and other relay specifications.

The relay output of the XL Display is a Dry Contact. This means that you determine what voltage is being switched through the relay by wiring the desired voltage to the Common terminal of the relay. The diagrams below show how you can connect an AC or DC load to the relay output.

Option 1 – AC Load – Up to 250VAC at 1A (max), Resistive Load Only

1. An AC load may be connected to the normally open (NO) terminal (pictured below), the normally closed (NC) terminal, or both.
2. Wire the main logic board relay output according to the following diagram.

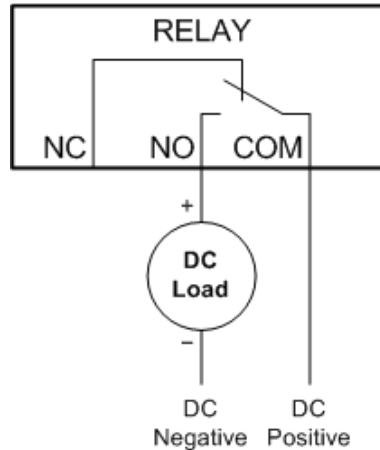
Do not wire inductive loads such as motors, solenoids, or relays to your XL product. Use of an inductive load could result in damage to an output.



Option 2 – DC Load – Up to 30VDC at 1A (max), Resistive Load Only

1. A DC load may be connected to the normally open (NO) terminal (pictured below), the normally closed (NC) terminal, or both.
2. Wire the main logic board relay output according to the following diagram.

Do not wire inductive loads such as motors, solenoids, or relays to your XL product. Use of an inductive load could result in damage to an output.



By default, the relay output turns on each time the XL Display goes into Down mode. The relay output turns off once a Down reason is scanned. The operation of the relay can be changed if this is not the operation that you desire. Give us a call if you need to change the operation of the relay output.