



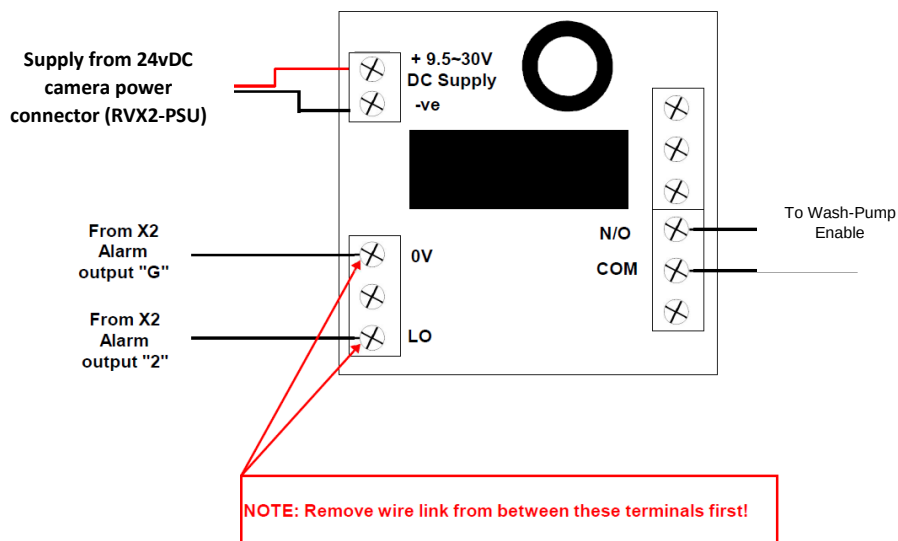
Suggested Wash Switching Circuit Guide

The Redvision X2 COMBAT camera provides a voltage and current-free relay output for enabling a CCTV washer-pump. This can be used in conjunction with the camera's built-in Wiper, to provide clear images all year-round. Both Wash and Wipe functions can be controlled via ONVIF or Preset Shortcut. If Alarm output 2 is desired to be used as a Wash controller, do not modify settings for alarm output 2, as these will override the Wash function default settings. If Alarm output 2 settings have been modified, ensure that the **"Alarm Time"** setting is set to **5000ms**, to ensure safe operation. Do not leave set to "(0: Continuous)" or the contact will remain closed and damage may occur to the washer motor.

It is important that no voltage or current should pass through the camera's Wash output contacts, it is completely dry, voltage-free system that provides a logic HIGH or LOW state to trigger a 3rd party device. To use the relay output with a Wash-pump that requires a positive voltage to be switched in order to enable the pump, a 3rd party interface is required, the **Bentley AT-182 Ultra-Universal Relay (CPC part No. HK01116)**. This unit uses the Wash output contacts from X2, using a relay to switch the enable line/ supply voltage to the Washer Pump.

The relay board takes very little current, so the power supply can be taken from the RVX2-PSU's 24VDC CAMERA power connection. With all power switched OFF, Connect the relay board supply wires together with the camera power wires into the + and – connections on P2.

Suggested circuit using the Bentley AT-182 Relay Interface:



- Please ensure that the Washer Pump current rating does not exceed the AT-182 Relay's maximum rating (8A).
- The X2 Wash relay output will engage for a maximum of **5 seconds** each use, to avoid motor damage. This assumes that settings for Alarm output 2 have not been modified in any way (see note above).