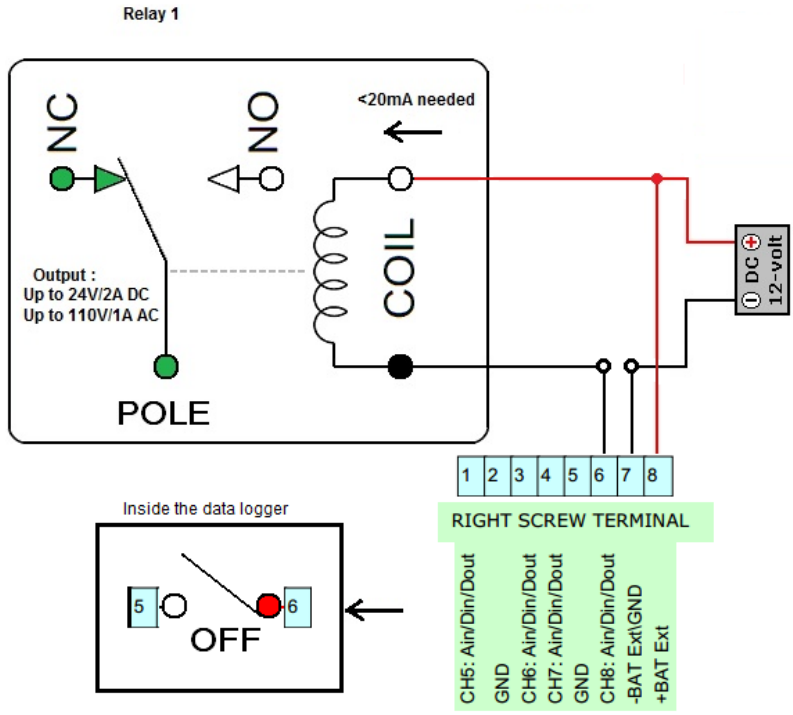
SMALL RELAY DRIVING BY STYLITIS-10'S DIGITAL OUTPUTS

Any Stylitis-10 channel can be set as a digital output, which may be activated (become low, ie channel and ground are short-circuited) either manually or when certain conditions concerning other channels are satisfied. In the diagram below, the digital output is channel 8 and it is deactivated (marked as OFF).



When the conditions are satisfied, the switch closes, and current flows through the relay's coil inductor. However, the relay must be small, ie its coil must be activated via a current lower than 20mA (the max current the logger's digital output can supply).

Such a relay can receive at its output (at the NC/ NO contacts) a direct (DC) voltage of 24V at 2A or an alternating voltage of 110V at 1A. Besides the voltage limit, there is a power limit as well, ie, for instance, for a 12VDC load, a 4ADC current can pass through the contacts.

If the voltage and current through this small relay's contacts do not suffice for your load, you may use an additional relay (see the diagram below), which will use the first relay's contacts as an activation switch. Therefore, eg, with a 12V DC power supply, its coil must be activated with 4A max current, while the tolerance of the output contacts concerning voltage and current depend on your requirements (eg 220VAC/ 10A AC)