

## SMART RELAY YDSR-01

The device helps you when you have two loads and only one power switch. Smart Relay powers the first channel when you turn the power switch on, and it powers the second channel when you cycle the power switch twice in one second.

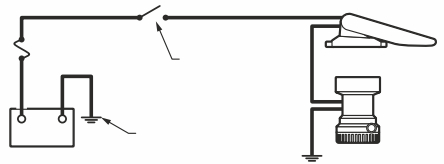
Smart Relay contains a bi-stable RT424F05 relay and uses power only when the channels are switching; at all other times it consumes less than 0.5 mA. It can switch loads from 7 - 28V DC with continuous current up to 8A and peak current of 15A (4 seconds, 10% duty rate). To switch between channels, you should cycle the power in one second. If you need to have one load constantly on and the other should be on after the fast cycling of the power, just connect the first load to the incoming power terminals and the second load to channel 2.

## Use Case

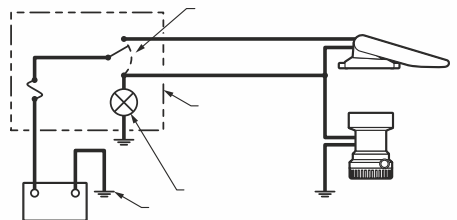
For example, you have a bilge pump and wish to add a float switch. However, you also want to keep the manual control and do not wish to replace the 2-wire cable with a 3-wire one. And, of course, you do not like the idea of changing the button on your panel to 3-position switch.

The Smart Relay is an ideal solution for this case. It has two output channels (CH1 and CH2 in Picture 2). When powering, Smart Relay always turns on channel 1, and fast cycling of the power switch engages switching between channels.

In Picture 2, channel 2 of the Smart Relay is connected to the power terminal of the pump in parallel to the float switch. When you turn the On-Off Switch on, channel 2 of Smart Relay is not active and the float switch controls the pump. Cycle the On-Off Switch in one second and channel 2 becomes active, the current will flow from the VCC to CH2, and the pump will turn on.



Pic. 1. Wiring diagram from the Rule Industries



Pic. 2. Manual/automatic control with the Relay