

HOLATRON

OPERATION & MAINTENANCE GUIDE – 12 Volt Latching Relay Module



HOLATRON SYSTEMS, LLC

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WARNING

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1.0 HARDWARE DESCRIPTION.

The module contains 7 spring terminals, a switch, and an indicator. The two terminals marked "12 VDC Power" connect to your 12 volt DC supply. Power polarity is not critical, but output polarity will match power polarity, as defined by the red and black terminals. That is, when latched on, power red is connected to output red. Power black is always connected to output black, whether on or off. **DO NOT USE AC POWER**, as that will damage the relays. The two terminals marked "12 VDC Output" connect to the 12 volt device you wish to actuate. The red indicator lights when 12 volts is present at the output terminals.

--- WARNING ---

THE INPUT POWER SOURCE SHOULD ALWAYS BE CONNECTED BEFORE THE OUTPUT. DO NOT CONNECT A DEVICE TO THE OUTPUT TERMINALS IF THE OUTPUT INDICATOR IS LIGHTED, AS IT WILL BE ACTUATED IMMEDIATELY.

Maximum current capacity of the relays is 5 amps. Operation with devices consuming more than 5 amps, or with shorted output terminals, will damage the relays and void the warranty. Please note that the output is not fused. So be very careful not to connect to a short circuit. Modules with internal automatic resetting fuses are available at a higher price.

2.0 OPERATION.

The three terminals marked "9 VDC Control" connect to the Six-shooter receiver. "COM+" connects to one of the two "COM+" terminals on the Six-shooter receiver. "ON" connects to one of the Six-shooter output terminals. This is the cue that will turn on your 12 volt device. "OFF" connects to a second Six-shooter output terminal, typically the next cue in sequence after the "ON" cue, resulting in an "alternate-action" function when firing in semi-automatic mode. Pressing the transmitter button to fire the "ON" cue turns on the 12 volt device. Pressing the transmitter button a second time fires the next sequential cue which turns off the 12 volt device. You may also use Six-shooter cue 6 for the "OFF" connection when firing in Six-shooter modes 0 - 3. This enables you to leave the 12 volt device on while continuing to fire other sequential cues with the transmitter "A" button and turn the 12 volt device off at any time by pressing the transmitter "B" button, which fires cue 6.

3.0 MODE SELECTION.

The operation described in the preceding paragraph requires that the "Latching Mode" switch be in the "Enabled" position. If the switch is in the "Disabled" position, the 12 volt output is simply slaved from the 9 volt "ON" terminal. The output switches off as soon as the "ON" terminal switches off, and the 9 volt "OFF" terminal has no effect.

4.0 SPECIFICATIONS.

Parameter	Minimum	Typical	Maximum
Output Current			5 Amps
Supply Voltage	10 VDC	12 VDC	14 VDC
Control Voltage	8.5 VDC	9 VDC	12 VDC
Control Current		18 milliamp	
Control Input Impedance		500 ohm	

If further information or service is required, contact:

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