

### Overview

The Relay Output Module (RYOM) converts a switch closure from a wireless transmitter into a switch closure for your controller. The RYOM is available from BAPI with either normally open or normally closed contacts. The outputs default to normally open in a fault condition or when power is removed.

All analog output modules are easily trained to a single transmitted variable with a pushbutton and LED.

### Product Identification

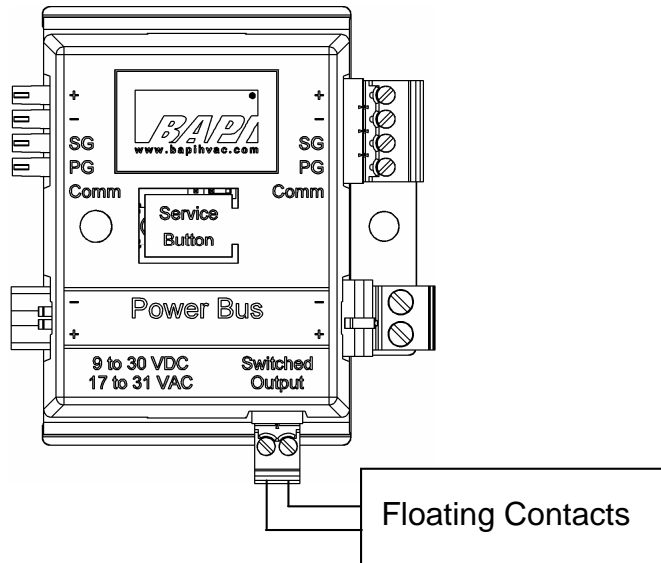


Figure 1: Relay Output Module

### Tools and Materials

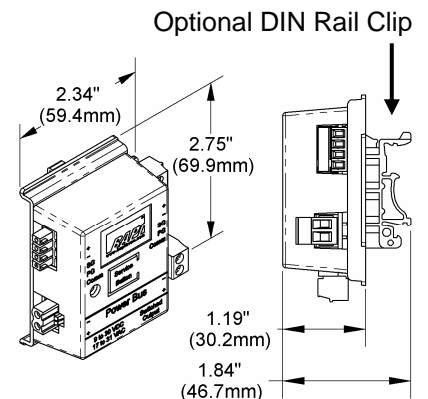
#2 Philips Screwdriver, 1/8" Screwdriver (BA/116W), Drill, Wire

### Mounting and Termination

Relay output modules are surface, 2.75" snaptrack or 35mm din rail mountable.

For mounting and termination instructions see either the 418MHz receiver Installation & Operation sheet (17613\_ins\_wireless\_418\_rcvr.pdf) or the 900MHz receiver Installation & Operation sheet (17614\_ins\_wireless\_900\_rcvr.pdf).

These files are available from your friendly BAPI representative or our website [www.bapihvac.com](http://www.bapihvac.com) on the bottom of the wireless receiver page.



Specifications subject to change without notice.



## Diagnostics

### Possible Problems:

Relay contacts do not switch

LED Blinks Rapidly

### Possible Solutions:

- Check power to the receiver and output module.
- Retrain the modules as described in the 418MHz receiver Installation & Operation sheet (17613\_ins\_wireless\_418\_rcvr.pdf) or the 900MHz receiver Installation & Operation sheet (17614\_ins\_wireless\_900\_rcvr.pdf)
- Data not getting through from transmitter assigned to this output module. Check transmitter to see if its LED flashes about every 10 seconds. If not replace the batteries.

## Specifications

**Supply Power:** 9 to 30 VDC or 17 to 31 VAC

**Power consumption:** 15 mA max (relay on)

**Relay Output:**

- 40V(DC or AC peak)
- 150 mA Maximum
- On state resistance 15 $\Omega$  Maximum
- Off state leakage current 1 $\mu$ A Maximum

**Inputs:** RS485

**RS485 Cable Distance:** 4,000 ft with shielded, twisted pair cable (Belden 9841, Belden 8132 or equivalent)

**Environmental Operation Range:**

- Temp: 0° to 60°C
- Humidity: 5% to 95% RH non-condensing

**Material:** ABS Plastic

**Material Rating:** UL94, V-0

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