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RF Transmitter/Receiver Model HPC-8F Programming and Operating Instructions

Overview:

The HPC-8F is a RF transmitter/receiver operating at a fixed frequency of 340 MHz. The receiver operates from a DC voltage input range between 12 -24 Volts and provides 8 contact closures tied to one common, and one output that is present with each of the 8 outputs designed to run a pump in hydraulic applications. The output relays are configured for momentary operation so the output is present when the transmitter switch is pressed. Each transmitter has a unique address that is transmitted when a button is pressed. A "program" button is provided on the receiver to program the transmitter(s) address into the receiver's memory. An LED on the receiver indicates the receiver's programming status and illuminates when the relay is energized. The receiver electronics are encapsulated in a urethane potting compound for weather proofing and the assembly is supplied in a mounting tray. The typical operating range between receiver and transmitter is up to 100 feet.

Maximum ratings:

Power for the receiver can be in the range of 10 to 30Vdc. The receiver is reverse polarity protected.

The relay contacts are electrically isolated from the DC power inputs.

The relay contacts are rated at 10 Amps @ 30Vdc or 120/240Vac.

Programming Instructions:

Each transmitter has its own unique internal address that is transmitted whenever a switch is pressed. The receiver needs to be programmed to respond only to transmitters it is intended to operate with. The following steps configure the receiver to operate with the transmitter(s). Up to 30 transmitters can be programmed to one receiver. Please read the entire programming procedure before starting. Prior to programming the receiver, verify that the receiver is connected to the input power. When the receiver enters the program mode, all previous transmitter addresses that were programmed will be erased from the receiver's memory.

1. Locate the blue pushbutton labeled "PROGRAM" on the receiver. Press and hold this button until the red LED next to the program button illuminates (approximately 3 seconds). The receiver is now in the transmitter program mode. Release the blue button. All previously programmed transmitter addresses are erased from the receiver's memory.
2. Press and release any switch on the transmitter, the program LED will turn off then on (blink). Within 5-seconds press and release a switch on transmitter number two, the program LED will turn off then on. Repeat this procedure for the remaining transmitters to be programmed to the receiver.
3. After 5-seconds of no switch being pressed on the transmitter(s) the receiver will return to normal operation. The red LED on the receiver will blink rapidly, then extinguish. The receiver is now in the normal mode of operation. This completes the programming instructions. The receiver will retain all programming even when power is removed.