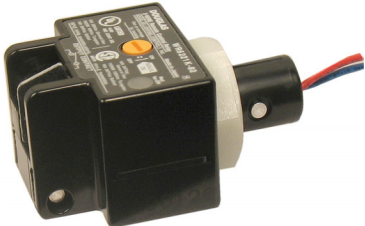


WR-6221K-82 - Mechanical Latching 16Amp Rated - KO Mounted

Project Name: _____
 Part Numbers: _____ Date: _____



Features

- ☒ Knockout mount relay, 1 pole
 - ☒ Branch circuit, 16 Ampere latching relay
 - ☒ Screw terminals on load side and colored pre-stripped leads on control side
 - ☒ Manual operation lever and indicator built-in for convenient operation and status check at the panel
 - ☒ Relay fits to standard 1/2-inch pipe knock out (7/8 in hole)
 - ☒ Use Douglas WEx series relay panels (sizes 6, 12, 24, 36, 48, 60 and 72)
- NOTE: The WR-6221K-82 Relay is identical to the WR-6221 Relay except for the 16A contact rating

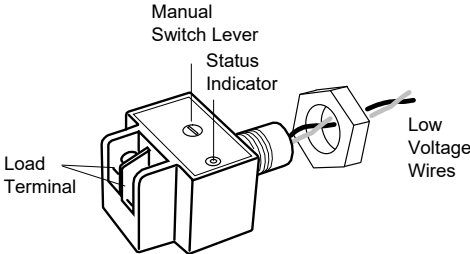
Universal Douglas 2-wire relays utilize an ingenious control method that permits simple and minimal wiring. All functions for low voltage control: on, off, indication and location are provided with only a 2-wire connection of which one is often a common. All Douglas relays manufactured over the past 35 years utilize the same principle. Thus, any Douglas switching device is compatible with any model of Douglas relay.

Typical Applications:

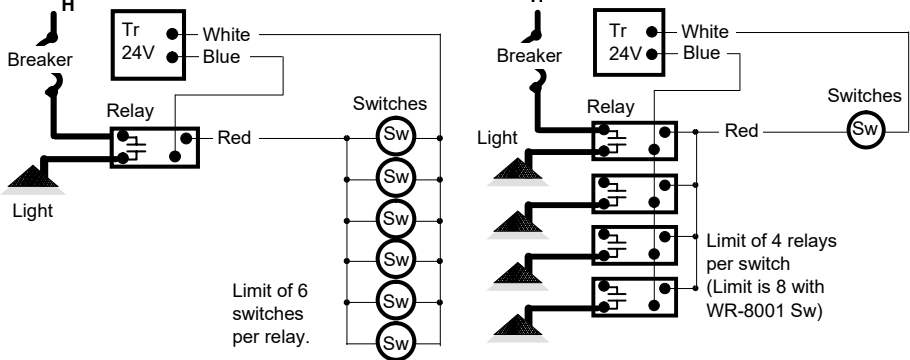
- ☒ A negative pulse turns the relay ON and a positive pulse turns it OFF. Using a diode, an AC signal can be rectified to turn the relay either ON or OFF. Douglas switches have 2 diodes built into the switch to provide the ON and OFF signals.
- ☒ The relay has 2 similar diodes built inside that are in series with the relay coil. The diodes in the relay act as gates for the switch signal.
- ☒ To turn the relay ON or OFF, the rocker switch completes the circuit by selecting the ON or OFF diode. If the diode selected is in the same direction as the gate diode in the relay, the relay will switch. If the gate diode is not in the correct direction, then nothing will happen since the relay is already in the correct state for the action selected by the switch. When the switch is released, a spring returns it to the central neutral position.
- ☒ Indication (ON state) and location (OFF state) are obtained by utilizing LED diodes built into the switch. Only the LED which is connected in the same direction as the gate diode in the relay will light. Although the LED current passes through the relay coil, it is not large enough to cause the relay to trip. However, there is a limit: the maximum number of LED switches that can be connected to the same relay is 6.
- ☒ For additional convenience (especially during installation) all standard models have a manual control lever and indicator permitting a non-electrical method of switching and status check at the panel.

PART NUMBER	DESCRIPTION
WR-6221K-82	16 Amp Rated KO Relay

WR-6221K-82 Relay

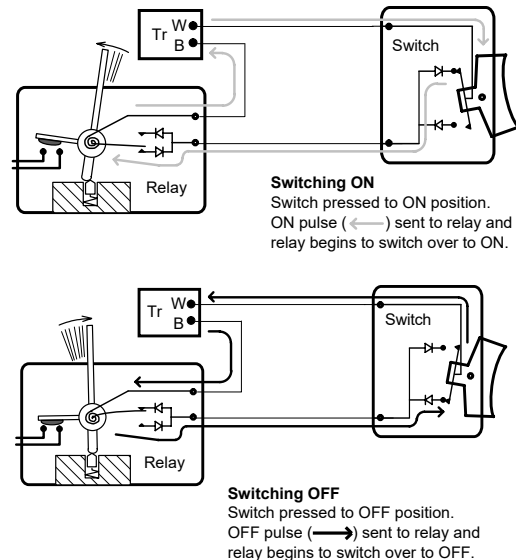
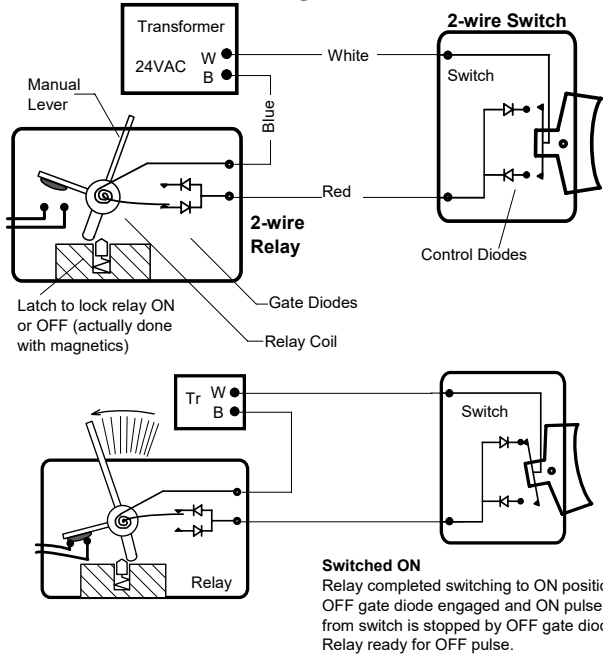


Connections

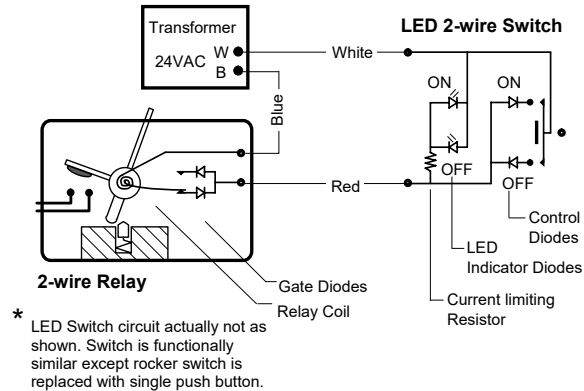


WR-6221K-82 - Mechanical Latching 16Amp Rated - KO Mounted

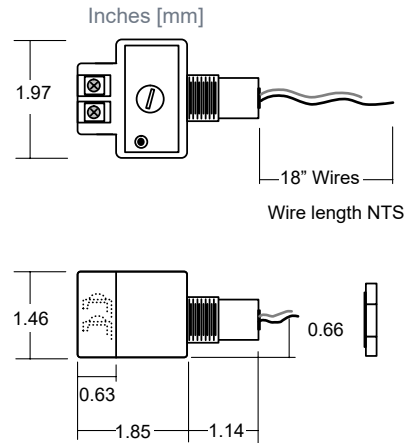
Detailed 2-wire Relay / Switch Circuit



Detailed LED Switch Circuit *



Dimensions



Technical Details

CONTROL INPUT	<ul style="list-style-type: none"> Class 2 circuit 0.350 A (350mA) 24-volt reversible polarity pulse Input terminals: #16 - #20 AWG
OUTPUT	<ul style="list-style-type: none"> More than 30,000 operations @20 times / min. switch speed. <ul style="list-style-type: none"> UL Listings 1920 W 120 VAC Tungsten 16A 300 VAC Ballast CSA Certifications <ul style="list-style-type: none"> 16A 347 VAC 1920 W 120 VAC Tungsten 16A 347 VAC Ballast Output terminals: #12 - #14 AWG
ENVIRONMENT	<ul style="list-style-type: none"> Indoors, stationary, non-vibrating, non-corrosive atmosphere and non-condensing humidity Ambient Temperature: 0° to 120°F (-28° to 50°C)
WARRANTY	<ul style="list-style-type: none"> Standard 5-years