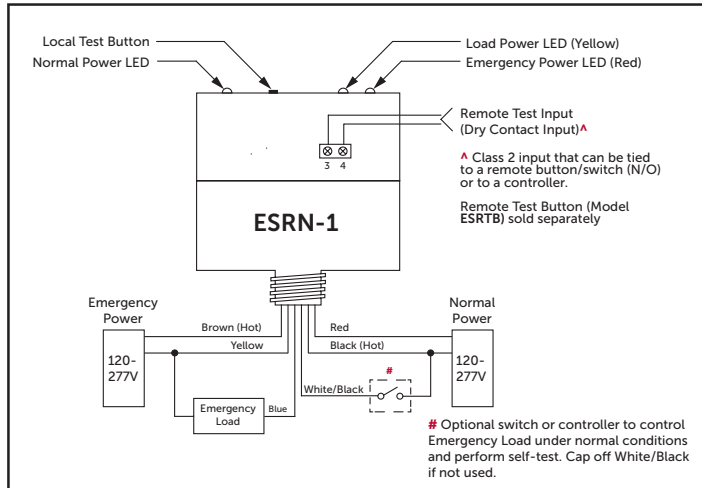


## ESRN-1

Enclosed Relay 20 Amp SPST Automatic Load Control Relay, 120-277 Vac Coil Input



## UL924 / 20 AMP AUTOMATIC LOAD CONTROL RELAY



## Specifications

**# Relays & Contact Type:** One (1) SPST Continuous Duty Coil  
**Expected Relay Life:** 10 million cycles minimum mechanical  
**Operating Temperature:** -30 to 140° F  
**Operate Time:** 18ms  
**LED:** Green = Normal Power  
 Red = Emergency Power  
 Yellow = Load Power  
**Dimensions:** 4.0" x 4.57" x 1.80" with .50" NPT Nipple  
**Wires:** 16", 600V Rated  
**Approvals:** UL Listed, UL924, C-UL, CE, RoHS  
**Housing Rating:** UL Accepted for Use in Plenum, NEMA 1  
**Gold Flash:** No  
**Override (Test Switch):** No  
**Humidity Range:** 5-95%(noncondensing)

**Coil Current:**  
 Normal Power = 24 mA max  
 Emergency Power = 118 mA max

**Coil Voltage Input:**  
 Emergency Input: 120-277 Vac (50/60 Hz)  
 Normal Input: 120-277 Vac (50/60 Hz)

**Contact Ratings:**  
 20 Amp Magnetic Ballast @ 277 Vac  
 16 Amp Electronic Ballast @ 277 Vac  
 10 Amp Tungsten @ 120 Vac

## Test and Troubleshooting

### Initial Test

Apply Emergency Power to the Emergency Power Input and Normal Power to the Normal Power Input. (If using the Wall Switch Input, apply Normal Power to the switch also, but keep the switch OFF/OPEN.)

- The Red LED (Emergency Power available) should be ON.
- The Green LED (Normal Power available) should be ON.
- The Yellow LED (Load Status) should be OFF.
- The Load should be OFF.

### Test Button

- Turn switched circuit OFF. Emergency light should be OFF.
- Press and hold "Local Test Button" or "Remote Test Button"
- Emergency light should turn ON.
- Release Test Button and emergency light should turn OFF.

### Wall Switch or Controller Contact

- Turn ON switch if not already on.
- Emergency light should turn ON.
- Turn wall switch OFF.
- Emergency light will remain on for two seconds before turning off.

## Bypass/Shunt Relay Application

Our Bypass/Shunt Relays are UL924 Listed and suitable for shunting around wall switches and/or lighting control panel circuits, in order to turn on emergency lighting when normal utility power is lost.

## Using Emergency Lighting as Normal Lighting

