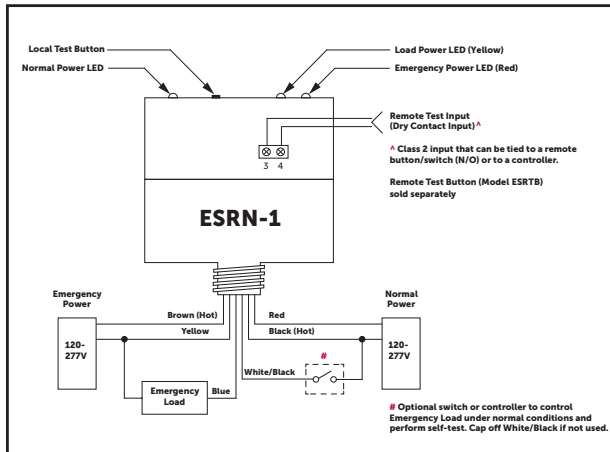## UL924 / 20 AMP AUTOMATIC LOAD CONTROL RELAY

ESRN-1

UL924 Emergency Lighting Automatic Load Control Relay, 20 Amp SPST, Universal 120-277 Vac Coil Input, Dry Contact Fire Alarm Interface

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:	4.00"H x 4.00"W x 1.81"D with 0.50" NPT nipple
Housing Detail:	See **Housing C** in housing guide for dimensions
Origin:	Made of US and non-US parts
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

TESTING & 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.)
  a. The Red LED (Emergency Power available) should be ON.
  b. The Green LED (Normal Power available) should be ON.
  c. The Yellow LED (Load Status) should be OFF.
  d. The Load should be OFF.

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

Wall Switch or Controller Contact
1. Turn ON switch if not already on.
2. Emergency light should turn ON.
3. Turn wall switch OFF.
4. 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

* The White/Black wire must be on the same branch circuit as the Black wire.

To use Remote Test Input, the White/Black wire must be de-energized. Input can also be sent by a controller.

^ Class 2 Fire Alarm Interface, Remote Test Input (N/O) for Button or Controller

Remote Test Button (Model ESRTB) sold separately