BACHARACH®

Multi-Zone Tower Light
with Audible Alarm
PN #3015-6143

Installation Guide

For more detailed product information, scan here or visit **www.mybacharach.com** to access the Multi-Zone User Manual **(P/N: 3015-5074).**

1. Introduction

The Multi-Zone Tower Light is a three color tower light that can be wired into the alarm and fault relays of the Multi-Zone for enhanced visual and audible alarming. The tower light includes a 90 dB omni-directional audible alarm.

Please read and strictly follow the contents of this document for information on the installation of tower light.
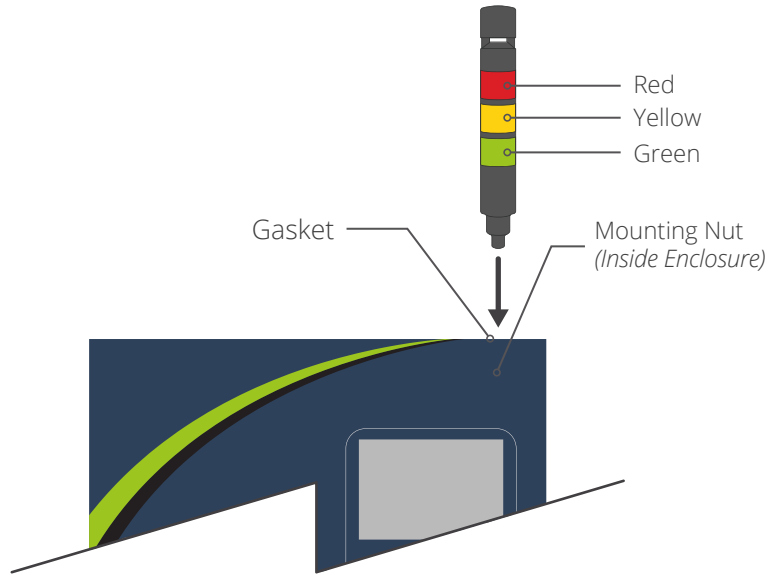
2. Safety Instructions

⚠️ **WARNING:** Make certain that the power source is disconnected *(Circuit Breaker or Fused Disconnect Switch)* from the Multi-Zone before installing the Multi-Zone Tower Light. Failure to do so presents an electrical shock hazard to personnel and could damage to the Multi-Zone and the Multi-Zone Tower Light.
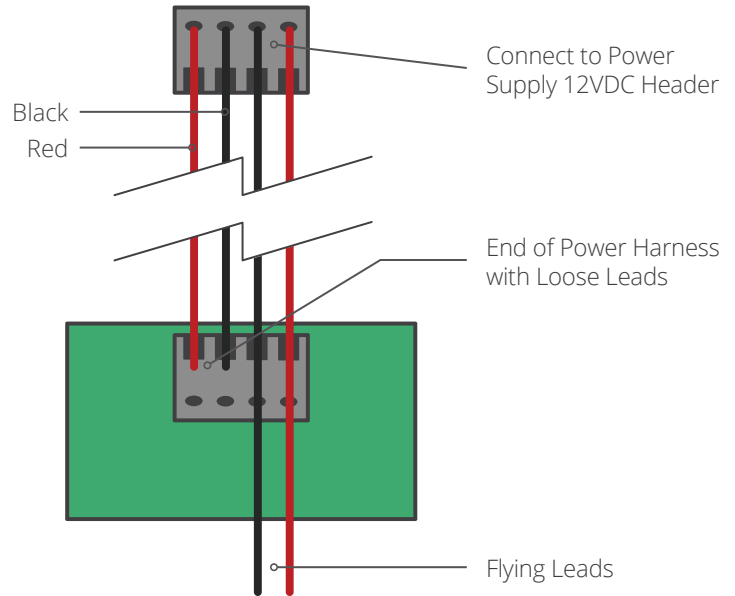
3. Installation

1. Install the tower light into one of the knock-out holes in the top of the Multi-Zone, securing it using the provided gasket and mounting nut.

Red
Yellow
Green

Gasket

Mounting Nut *(Inside Enclosure)*

2. Install the modified Multi-Zone power harness into locations show in the picture below.
   ▸ The end of the power harness with the loose leads *(RED and BLACK)* should be landed on the jumper on the main controller board.

Connect to Power Supply 12VDC Header

Black

Red

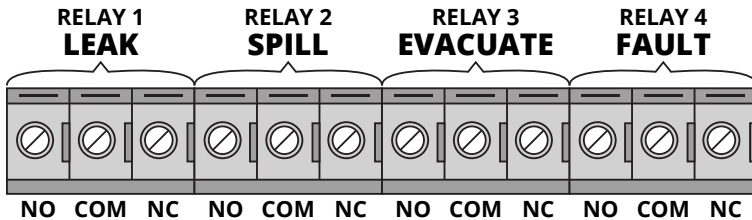End of Power Harness with Loose Leads

Flying Leads

4. Wiring

NOTE: This wire scheme is only one way to wire the Multi-Zone Tower Light. If the user wants a different response they can modify the relay wiring as they see fit.

OPERATION	GREEN	YELLOW	RED	SIREN
Normal	ON	OFF	OFF	◁
Leak	OFF	ON	OFF	◁
Spill	OFF	ON	ON	◀))
Evacuation	OFF	ON	ON	◀))
Fault	OFF	OFF	ON	◀))

1. **Wiring the modified cable harness.**
   ▸ The red loose end of the modified wire harness is installed in Common terminal of the Fault Relay *(Relay 4)* in the diagram below.
   ▸ The black wire is connected with a wire nut (not provided) to the Blue wire *(-)* of the tower light.
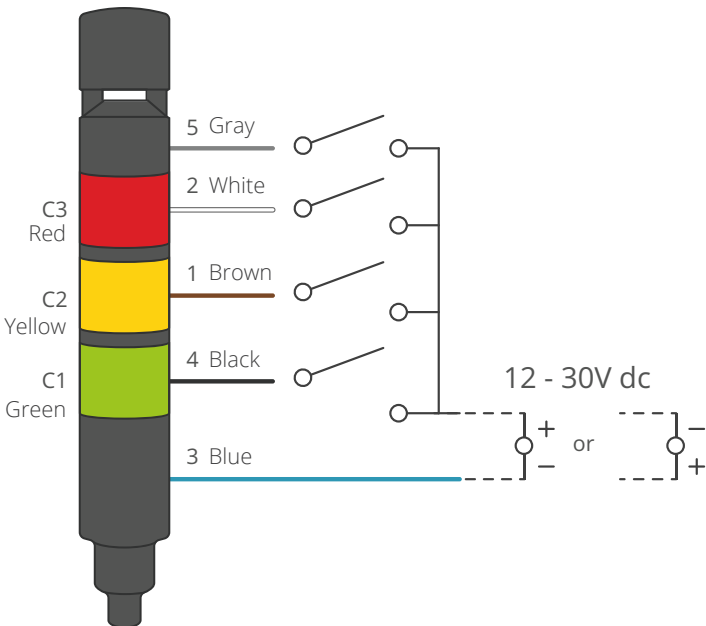
RELAY 1 LEAK			RELAY 2 SPILL			RELAY 3 EVACUATE			RELAY 4 FAULT		
NO	COM	NC	NO	COM	NC	NO	COM	NC	NO	COM	NC

2. **There are (4) jumpers (provided by others) that are needed to accommodate the above operation:**
   ▸ **JUMPER 1 –** NC terminal of Fault Relay *(Relay 4)* to Common terminal of Evacuate Relay *(Relay 3)*
   ▸ **JUMPER 2 –** Common terminal of Evacuate Relay *(Relay 3)* to Common terminal of Spill Relay *(Relay 2)*
   ▸ **JUMPER 3 –** Common terminal of Spill Relay *(Relay 2)* to Common terminal of Leak Relay *(Relay 1)*
   ▸ **JUMPER 4 –** NO terminal of Spill Relay *(Relay 2)* to NO terminal of Fault Relay *(Relay 4)*

3. **Connect the remaining wires from the tower light as follows:**
   ▸ **BROWN –** NO terminal of Leak Relay *(Relay 1)*
   ▸ **BLACK –** NC terminal of Leak Relay *(Relay 1)*
   ▸ **GRAY –** NO terminal of Fault Relay *(Relay 4)*
   ▸ **WHITE –** NO terminal of Fault Relay *(Relay 4)*

5 Gray
2 White
C3 Red
1 Brown
C2 Yellow
4 Black
C1 Green
3 Blue

12 - 30V dc

+ or −
− +

Red
3 × 20 mm (0.79 in)
Yellow
172.6 mm (6.8 in)
Green
M22 x 1.5
18 mm (0.71 in)
13 mm (0.51 in)
M12 x 1

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