

## **ISIMET**

### **Model # MLA-T-3-B-Y-G Monitoring Light Array - Tower Unit**

#### **Installation Instructions**

The Monitoring Light Array is a wall mounted light unit intended for use as a visual indicator that circuits of the Utility Controller system are active. The unit should be mounted conveniently on a wall at an elevation and location to permit all occupants to easily determine those services that are active. We recommend that the unit be mounted as high as reasonably feasible to avoid interference with occupants within the room. By removing or not using the wall bracket, the unit can be suspended from a ceiling.



#### **Components Provided with the Unit:**

Mounting Flange with SS screws & hex-wrench

(Square D Components)

1 - Base Unit with Cover                      3 - Colored Lenses                      3 - 24 vac Lamps

1 - Wall Mounting Bracket with Gasket (Option "W")

Note: Refer to instructions provided with lens units when assembling the Tower.

#### **Providing Wiring to the Unit:**

The unit requires a common and one wire for each output circuit on the Utility Controller that is to be monitored. *ISIMET* recommends that two spare wires also be provided. Minimum recommended wire is 20 AWG. Extend wiring from the Utility Controller Enclosure to the conduit elbow at the wall flange or to an accessible field provide J-box for later final connection to the

#### **Important! This is a 24 vac/vdc unit**

**All local electrical codes must be followed when connecting the conduit to the service panel and making wiring connections.**

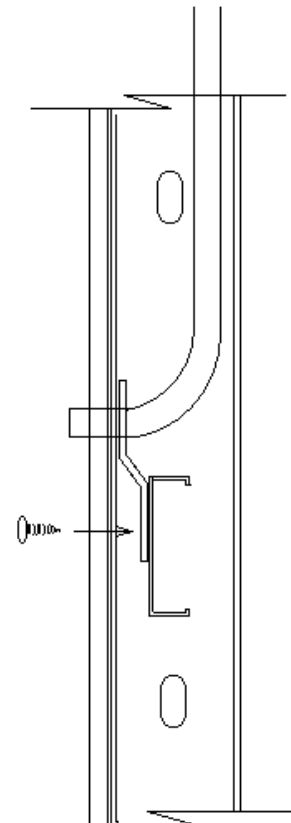
**Do not install wiring or cable for integrated systems, remote panic assemblies or other interface wiring within conduit for either 24-vac control or 120-vac line voltage. Each wiring system should be housed in independent conduit and not bundled with wiring for other systems.**

#### **Installing the mounting flange and conduit:**

A Z-shaped mounting flange is provided with the unit for attachment of the unit's wall mount bracket to the wall surface. We recommend that the flange be mounted so that the face will be flush with the back side of the sheet-rock wall. The flange is provided with holes to secure it to a structural member, three holes for attachment of the bracket, and a center hole to permit a field provided 1/2" emt conduit to pass through the center.

The conduit should extend approx. 1/2" beyond the finish wall surface and terminate above the ceiling in an accessible location. Cabling from the Controller to this unit can be installed either prior to wall finish or upon installation of the wall bracket.

**CAUTION:** We do not recommend the installation of this unit until all wall surfaces are finished and complete.



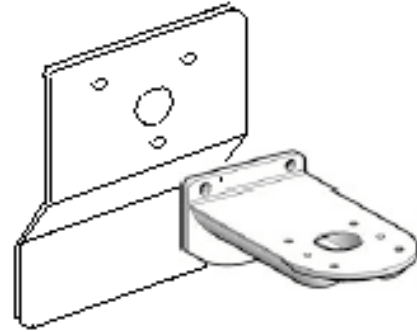
**Typical Flange mounting  
with conduit**

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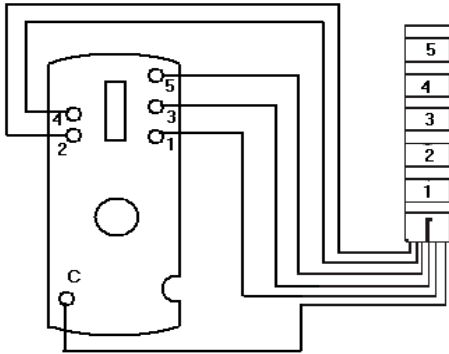
**Attaching the Wall Bracket: (If provided as option)**

Hold the bracket in front of the wall flange. Make sure wiring leads extend sufficient length to feed into and slightly beyond the elbow of the bracket.

Using the three (3) stainless hex screws, attach the bracket with gasket to the wall surface.



**Wiring Diagram – Base Unit**



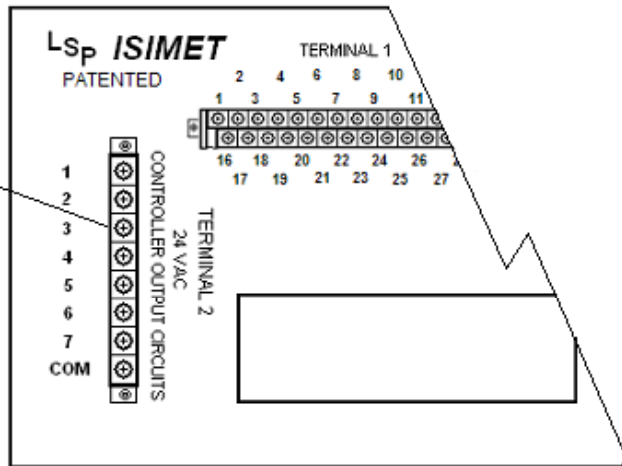
**Attaching the lens units to the bracket.**

Following instructions provided with the lens, attach in order Green – Amber – Blue

Wiring leads from the Controller should correspond to this configuration:

At Controller	At Tower
Circuit 1 –	Light 3 - post 3 Blue (Typical Electric)
Circuit 2 –	Light 2 - post 2 Amber (Typical Fuel Gas)
Circuit 3 –	Light 1 - post 1 Green (Typical Dom. Water)
Aux Circuit 4	Light 4 - post 4 *
Aux Circuit 5	Light 5 - post 5 *
24vac COM	post C White

Connect wiring from monitoring light unit to corresponding output circuits



**Wiring the Unit to the Utility Controller:**

Make connections to the Utility Controller's control panel at terminal 2. Corresponding wires from the Monitoring unit should connect in parallel to the output circuit post on the terminal. Connect the common wire to the COM post.

Caution! Do not connect any wiring device that generates a separate source of electricity to the terminal. Damage to the Utility Controller will occur.

**Test the Unit:**

Activate an output circuit at the Controller. Verify that the corresponding lamp illuminates. If the unit fails to operate, contact ISIMET or a factory representative.