



**START HERE**

To install your Flashing Sign System components

Your guide to install and maintain

- **M75-BOLAR-00LP**



029-00650-0000

Rev C



For Any Further Assistance  
Please Call our Technical Service  
Department at: 855-738-2722

NOTICE: Trafficalm's commitment to continuous improvement of products may mean the content of this document and specifications may change without notice. Please contact Trafficalm to check for updates before installation.

If you are unsure about any part of this installation or of the potential hazards, please contact Trafficalm Technical Support at 1-855-738-2722, in the U.S.A. Technical service hours: Monday through Thursday, 7:00 AM to 5:00 PM and Friday from 7:00 AM to 12:00 PM, Pacific Standard Time.

Please read and observe all safety information and instructions in this manual (found on page 3) before installing the system equipment.

The following designations signal critical information contained in this manual.

**DANGER!** Indicates a hazardous situation, which, if not avoided will result in serious injury and/or death.

**CAUTION!** Indicates a potentially hazardous situation, which if not avoided could result in moderate bodily harm and/or property damage.

We provide important safety information and warnings to assist you in understanding and avoiding potential harm to yourself or others, and possible damage to equipment during installation of the Flashing Sign System. Although we have included many of the potential hazards you may encounter during the installation of this equipment, we cannot predict all of the possible hazards, and this list should not be a substitute for your judgment and experience.

If you are unsure about any part of this installation or of the potential hazards mentioned, please call a qualified consultant immediately.

**DANGER!**

Use appropriate work zone traffic control methods, equipment and procedures.

**CAUTION!**

An accidental short circuit may instantly heat jewelry, tools and surrounding objects with skin-searing temperatures. To reduce risk when working around batteries, keep conductive objects away from battery terminals.

## **Warnings and Information**

### **Liability Statement**

Important Note: TraffiCalm Flashing Signs are not a safety device. TraffiCalm, its parent company, MOR Manufacturing, and its holding company, Arizona Transformer, along with their employees or owners shall be held harmless and will not be liable for any indirect, special, consequential, or punitive damages arising out of or relating to any traffic or other incident resulting in damage, injury, or death whether or not it is successful in alerting the approaching driver. This includes any type of equipment malfunction whatsoever.

To reduce the risk of electric shock related injury resulting from contacting hazardous AC voltage:

Portions of this equipment derive power from sources that have high voltage levels. These must be serviced by qualified personnel, who have previous training or certification to safely work on high voltage equipment. Consult a Qualified Electrician

This product uses devices that radiate RF energy in the course of normal operation. Radar RF energy can be harmful to the eyes:

To reduce exposure to the risk of RF energy, do not stare into the radar antenna. Keep a minimum safe distance of 20cm (8-inches) from the radar face.

Strain or back injury may result from lifting equipment improperly:

To reduce the risk of strain or back injury, use proper lifting techniques and have adequate help available when needed.

To avoid the possibility of injury due to falling or unstable equipment: Be certain the equipment is mounted to an appropriately rated pole or equivalent mounting surface. Use appropriately rated mounting hardware.

### **NOTICE**

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off or on, the user is encouraged to try to correct the interference by one or more of the following methods:

**Re-orient or relocate the receiving antenna.**

**Increase the separation between the equipment and the receiver.**

**Consult an experienced radio /TV technician for help.**

Caution: Changes or modifications not expressly approved by TraffiCalm could void all product warranties.

## **Warranty Statement**

Applies to: All TraffiCalm supplied Flashing Sign System devices (Excludes Batteries)



TraffiCalm Systems provides the following warranty for its traffic calming solutions whether sold directly by TraffiCalm or by an authorized TraffiCalm distribution partner.

• TraffiCalm Systems warrants the product, excluding batteries, will be free of defect in materials and workmanship for a period of five (5) years beginning on the day the end user receives the product. Warranty is only valid if the product is ineffective for its intended purpose due to defects in materials or workmanship.

• Warranty is only valid if the product is installed, operated and maintained in accordance with

the manufacturer's instructions and recommendations (available upon request).

• TraffiCalm's sole responsibility, and the purchaser's and users' exclusive remedy, shall be that

TraffiCalm will either repair or furnish replacements for defective parts.

• Replacement parts will carry the unexpired warranty of the parts they replace. Any repairs conducted on out-of-warranty items will carry a 90 day warranty.

• Claims made under this warranty will be honored only if TraffiCalm is notified of a failure within the warranty period, reasonable information requested by TraffiCalm is provided, and

TraffiCalm is permitted to verify the cause of the failure.

• TraffiCalm assumes no liability for any incidental or consequential damages, in any way related to the product regardless of the legal theory on which the claim is based.

• TraffiCalm Flashing Sign Systems are designed, tested, and warranted to operate as a matched component system. The warranty is voided if all system components for controllers,

collaborators, and LED rings are not TraffiCalm equipment and third party devices are substituted without prior written approval from TraffiCalm.

### **This warranty does not cover damage resulting from:**

- Accidents, vandalism, impact with a foreign object, or acts of God.
- Product modifications made by someone not authorized by TraffiCalm
- Failure of Customer to follow TraffiCalm's published operating instructions,
- Failure to follow TraffiCalm's published site selection and installation instructions,
- Removal or relocation of the unit,
- Electrical work external to the unit, virus/hacker activity, and external computer errors.

THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES AND CONDITIONS,  
EXPRESS  
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES AND  
CONDITIONS OF MERCHANTABILITY.

## **Build America, Buy America Compliant**



*At TraffiCalm, we take immense pride in contributing to the development and improvement of America's roadways. Our commitment to the "Build America, Buy America" initiative is unwavering. We're pleased to share that our Radar Speed Signs, Flashing Sign Systems, and Intelligent Warning Systems are not only manufactured in the United States but are also constructed from materials produced substantially within our great nation.*

*For those seeking further information, services, or inquiries regarding our American-made traffic safety solutions, please do not hesitate to contact us. We're here to support your initiatives and help make America's roadways safer for all.*

*Thank you for choosing TraffiCalm as your trusted partner in enhancing transportation safety across the United States.*

## **ISO 9001: QUALITY STANDARDS**



**intertek**

*ISO 9001 certification signifies TraffiCalm's unwavering commitment to exceptional quality and continual improvement.*

*It reflects our dedication to delivering outstanding products and services, ensuring customer satisfaction and operational excellence. Our certification is a mark of reliability and consistency, demonstrating our commitment to excellence in the traffic safety industry.*

# Push 2 Cross Bollard

## 1. Introduction

The M75-BOLAR-00LP bollard comes pre-assembled from the factory. Follow these instructions to install and set up the bollard.

## 2. Installation

### 2.1 Location

- Install the bollard in a location chosen by an engineer at the appropriate height.

### 2.2 Pole Adjustment

- The pole can be rotated by loosening the securing screw at the base.
- Retighten the screw after alignment is achieved.

## 3. Connecting to a Controller

### 3.1 Wiring

- Insert the pushbutton wires to the corresponding phoenix connector ports. Connect to the board. Plug in power.

### 3.2 Activating the Transceiver

- Press the push button once to activate the transceiver.
- The bollard will stay in setup mode for up to 5 minutes.
- To reactivate the 5-minute setup window, press the push button again.

### 3.3 Network ID

- Located on the backside of the pushbutton plate is a 6-character network ID.
- This ID will be used in setup on the controller under "collaborators".

COLLAB ID:

238B8E

**Network ID example**

### **3. Connecting to a Controller (Continued)**

#### **3.4 Setup**

- Run through the setup as directed in the software manual for a push-to-cross system.
- Add all collaborators to the system when prompted, including the bollard.
- After setup is complete, wait 10 seconds before testing the system.

### **4. Testing**

- Press the push button on the bollard. The crosswalk system should activate as programmed.
- To see power levels and activations, connect via Wi-Fi to the controller and go to "Status". Under "Collaborators", look for the network ID used to program the bollard. You will now see activations and power related to the device.
- To see RF signal strength, go to "Diagnostics". Hold the push button, then refresh the page. You will see the network ID for the bollard with a signal strength.

### **5. Additional Information**

- You can connect up to 4 bollards per controller.

### **6. Removing Bollard and Adding to a New System**

#### **6.1 Factory Reset**

- Press and hold the push button
- On the controller, log into the Wi-Fi, go to the "Advanced" page, and factory reset. This will release the bollard from the system.
- Release the push button once controller prompts "All devices have been set to factory defaults. You will now be redirected to the setup wizard."
- To add to a new system, follow the initial setup.

## 6. Removing Bollard and Adding to a New System (Continued)

### 6.2 Advanced Setup

- If the controller has been damaged and factory reset is not achievable:
  - Open the top of the bollard. (Three screws hold it in place)
  - Remove the push button wiring from the Phoenix connector and insert a jumper cable. This will allow the transceiver to remain active.
  - Run through setup on the new controller and add into the system following the initial setup.
  - Remove the jumper wire, and reinstall the push button wires into the Phoenix connector.

## 7. Maintenance

- Replace the batteries when they reach 1.4VDC with Energizer Ultimate Lithium AA batteries. These batteries are recommended for best performance, battery life, and environmental tolerance.
- For testing purposes or temporary use, alkaline batteries are a suitable substitute until the prepared Ultimate Lithium batteries can be replaced
- Replace all batteries together.
- Dispose of used batteries properly.

## 8. Troubleshooting

### 8.1 Collaborator Not Found

- Make sure the network ID is correct.
- Ensure the button was pressed to activate the 5-minute setup window.
- Inside the bollard cap, there is a green LED that will blink during setup.
- Test battery voltage. The voltage of the battery should be 3.4VDC.
- Ensure the bollard is within the acceptable wireless range (100' obstructed from the controller, 600' unobstructed).

## 9. Additional Information

## 9.1 Battery Life

- The battery life is expected to last approximately 3 years with an average daily button actuation count of 300
- Or approximately 100,000 button actuations

## 9.2 Push Button

- Modular Push Button Station Assembly, Mechanical Switch
- 9"x12" R10-25 sign

### 9.3 Pole & Base

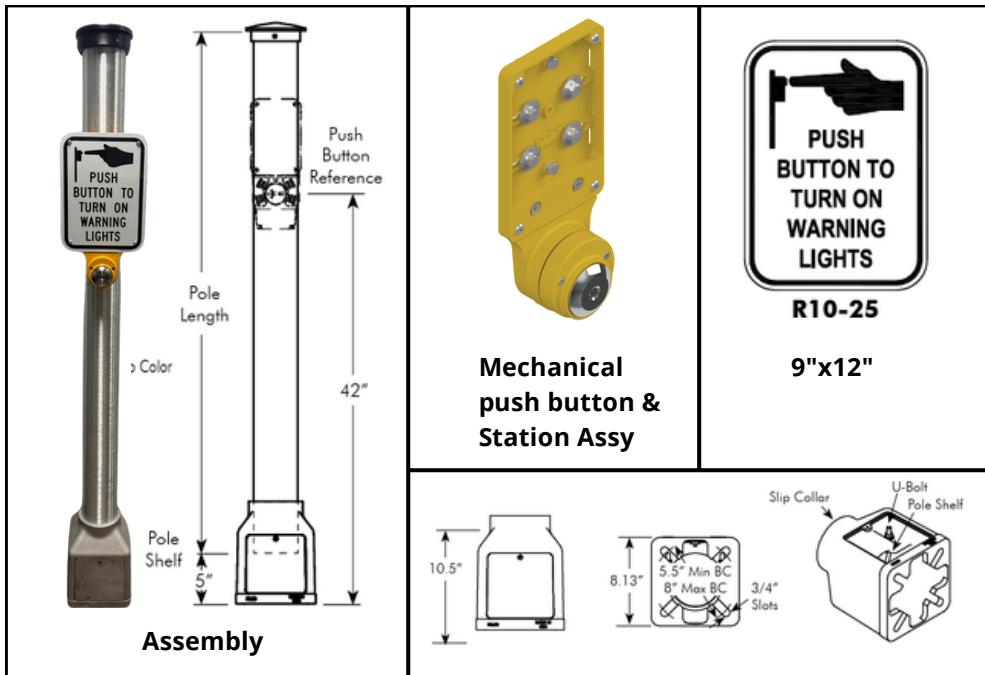
- PED POLE 5'X4" SCH40 SPUN ALUM
- Compact Base Assembly, Alum -5K Capacity w/ Alum Door

## 9.4 Bollard Cap

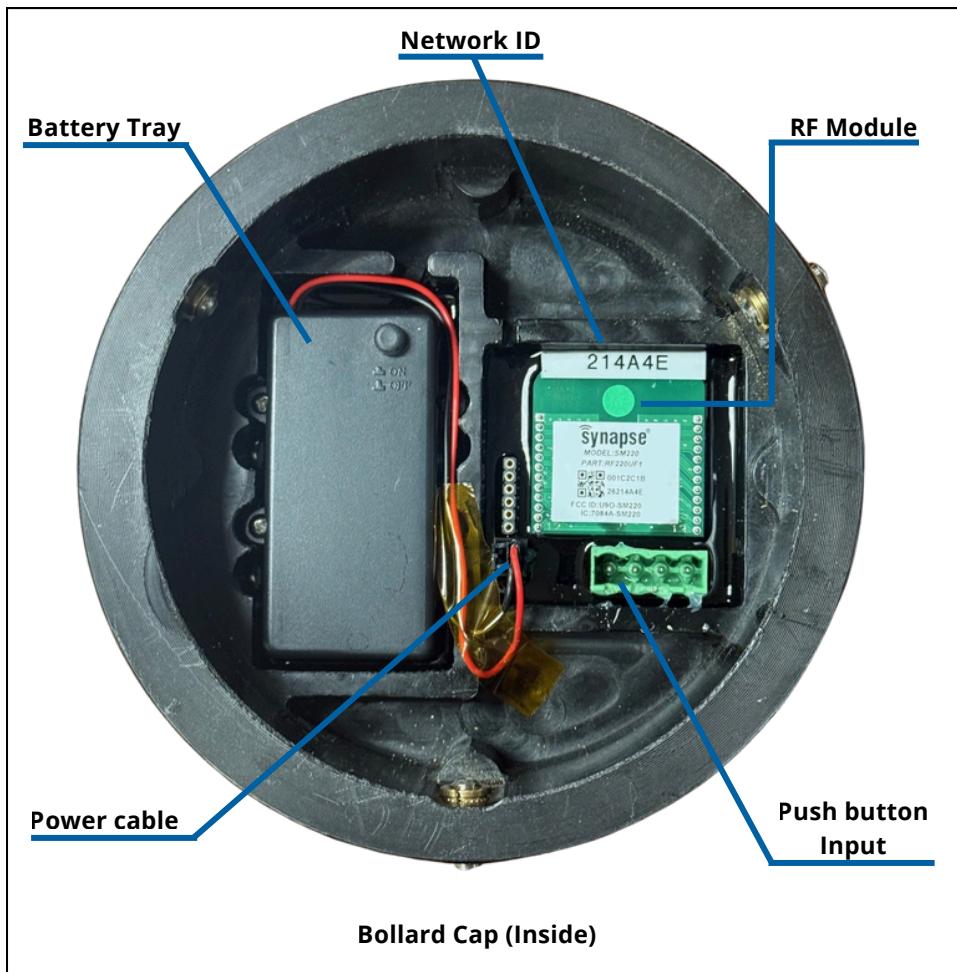
- 4.5" High-density polyethylene cap dome
- 2.4 GHz wireless button radio

### (Notes)

## 10. References



## 10. References



**\*Note\*** Battery tray comes in the "On" Position. Your tray may not have a on/off button.



# TRAFFICALM

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Scan QR code to visit the TRAFFICALM website.

Revision	Reason	Owner/Date
A	Initial release	DS 20250219
B	Updated instructions	DS 20250423
C	Updated battery life calculation	DS 20260106

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