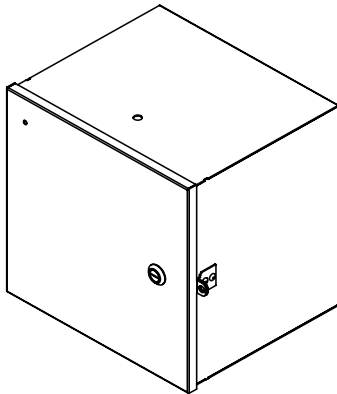


# FLASHING SIGN SYSTEMS

Model M75-SA300-CTLS/CLBS  
40Ah Controller and Collaborators

## Introduction

Building on TrafficCalm's Flashing Signs product line, the **M75-SA300-CTLS** and **M75-SA300-CLBS** ARE designed to offer elevated autonomy from user-replaceable batteries, resulting in unprecedented reliability in an intelligent calming flash controller.



Operating by itself, or in conjunction with remote collaborators, Flashing Sign Controllers offer incredible functionality in an easy to own package. Featuring inputs (and supporting logic) for two devices and a radar detector, as well as outputs for two alternating Rings, RRFB's, or Beacons (for example), plus unlimited expansion by adding wireless collaborators, the system's possibilities are limitless.

All TrafficCalm products are built in the USA. We **are** the complete engineering and manufacturing chain, meaning that everything going into our products is TrafficCalm!

### ● Configuration and Setup

Quick configuration via TC Connect™, a WiFi connection platform developed by TrafficCalm that requires NO Internet Connection!

With any browser enabled device, the Installer can easily log in and select from multiple options and settings including Flash Duration, LED Brightness and Dimming Control

### ● Durability and Reliability

Roadside signage, and the like, attract all forms of vandalism. Housed in a NEMA 4 aluminum enclosure the M75-SA300-CTLS controller is ready for years of tamper-free service

### ● Built For Efficiency

Operating on any of our Solar Panel Kits, the M75-SA300-CTLS/CLBS provides ample power to any TrafficCalm warning device by way of its 40Ah AGM battery supply. Suitable for a wide range of climates, TrafficCalm products are built for the road ahead

### ● Warranty

Industry leading 5-Year Warranty\*



Powered by TC Connect



# Features

## Physical Description

- Aluminum enclosure
- Weight: 49Lbs (22.2 kg) with batteries in place
- Mounting: Universal bracket accommodates most industry standard round or square posts of suitable load rating

## Solar Handling

- Input: 17-25VDC, 60W max
- MPPT Solar Charge Circuit to maximize efficiency
- See solar spec for dimensions
- Insolation required: 2 hrs of uninhibited sun daily for standard operation

## Input/Output

- Inputs: 2 per controller, accept dry contact closure, optional input devices include Push Button, Environmental sensors, and others.
- Outputs: 2 per controller, 12W max requirement, output devices include Sign Rings, RRFBs, Beacons
- Radar Port: accepts input from TrafficCalm Lite Radar
- Alternative Sign Flashing: utilizes Radar Port + and -, radar input cannot be used in this scenario
- Light sensor for configurable auto-dimming feature

## Battery

- 20Ah x2 (40Ah Total) AGM Battery reserve
- Field Replaceable
- Readily available technology doesn't require proprietary replacement

## TC Connect™ Human Interface

- WiFi Connectivity - No Internet Connection required
- Mode Selection: Pedestrian Crossing, Curve Warning, etc.
- Configurable Flash Duration
- Unified Wireless Collaboration Activation and Setting
- Configurable auto dimming profiles
- Reports count of total activations, up to 1 million activations

## Radio Collaboration

- Intelligent controller pushes settings to paired collaborators over secure D2D meshnet network
- 100ms wireless activation response time
- 3000 ft of range, repeatable signal
- Configurable Net ID
- 2.4 GHz operating frequency

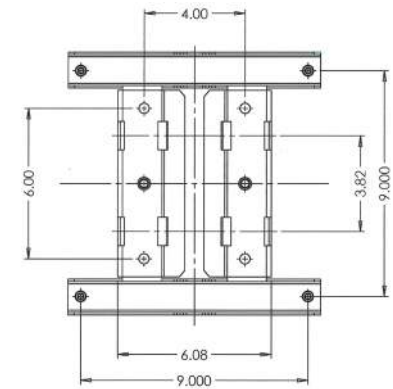
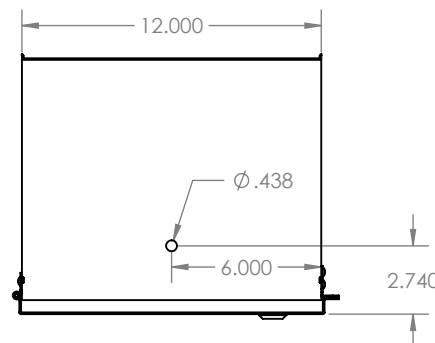
## Performance

- Rated for 800, 30 second activations per day with 2 hours sunlight for continuous operation
- 40Ah AGM Batteries provides ~20 days of 800, 30 second activations without solar panel input.
- Wireless activation within 100 ms
- Wireless range of 3000'
- -34° C to +74° C operating range
- 5 year warranty\*
- NEMA 4 aluminum enclosure, IP67 Rated cables, connections, and potted electronics

\*warranty excludes batteries

released: 20201215

## Dimensions



Mounting Bracket Detail

