

## **WRONG WAY WARNING SOLUTION**

*PRODUCT BROCHURE  
RELEASE 2021*



# **WRONG WAY WARNING**

**Powered by  
Collaborative Radars**



*The concept is simple, flashing sign enhancements (we call them rings) get driver's attention, regardless of the conditions. Live activation by way of collaborating radars dramatically improves response*

**Proven 88% (or better) turnaround rate after encountering the LED flashing signs before entering the mainline and causing a crash**

**Stretch budgets to cover every ramp and realize Vision Zero goals**

**Leverages patented wireless Radar Collaboration to ensure accuracy**

**TraffiCalm™ Wrong Way Solutions check all the boxes in a ruggedized design that will not let you down**

## *Built For Vulnerable Roadways*

Engineered specifically to cover off ramps where wrong way entries pose a pending danger at high speeds

## *Affordable By Design*

Every component is thoughtfully built or selected to maximize your budget

With our solution you can cover more ramps with the same budget

## *Astounding Accuracy*

When it comes to Wrong Way Mitigation false warnings can't be tolerated

Our patented wireless collaboration combines information from several radars to produce astounding reliability

No other solution excludes false positives as intuitively as our Wrong Way Warning Solution

## *Retrofit Installation*

Reuse existing signs, posts, and infrastructure

Capitalize on existing investment

Requires less planning and fewer permits

## *Proof Positive*

Historical data sets show a 88-100% turnaround rate at the flashing signs

Integrated activation data collection and reporting provides unequivocal evidence to each system's performance

Data reports export locally as a .csv for universal sharing and storage

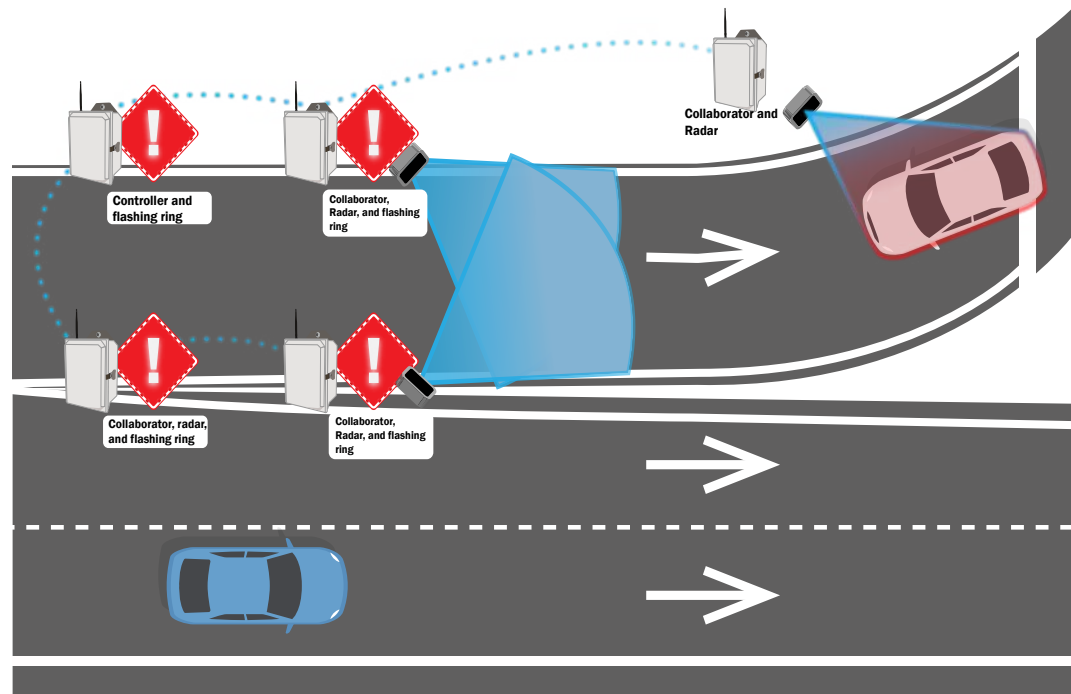
# The Magic of Collaboration

TraffiCalm™ Products are designed to be familiar in any application. Wrong Way Warning Solutions are no different

With 4 basic components, you can build out hundreds of safety applications

One Controller commands a wireless network of many Collaborators each connected to Radars and/or Flashing Sign Rings

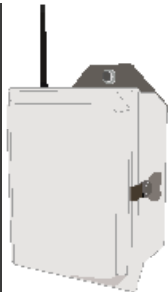
Easy to use TC-Connect configuration software can be accessed, without a download, from any Wi-fi equipped device-making setup a breeze, even for complex systems



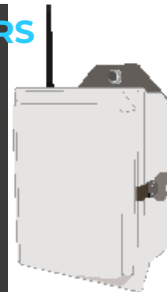
## Build With Just 4 Components

All approved on the FDOT APL, number 700-027-004

WARNING CONTROLLER



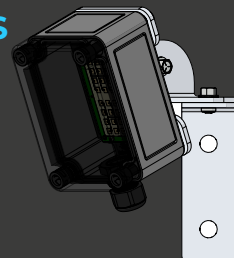
COLLABORATORS



FLASHING SIGN RINGS



RADAR DETECTORS



## Warning Controller and Collaborators

### Specifications

All Controller and Collaborator Models Feature:

#### Physical Description

- Mounting: Universal bracket accommodates most industry standard round or square posts of suitable load rating
- Nema 4x enclosure, all electronics potted
- Stainless fasteners used for corrosion resistance

#### Input/Output

- Inputs: 1 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

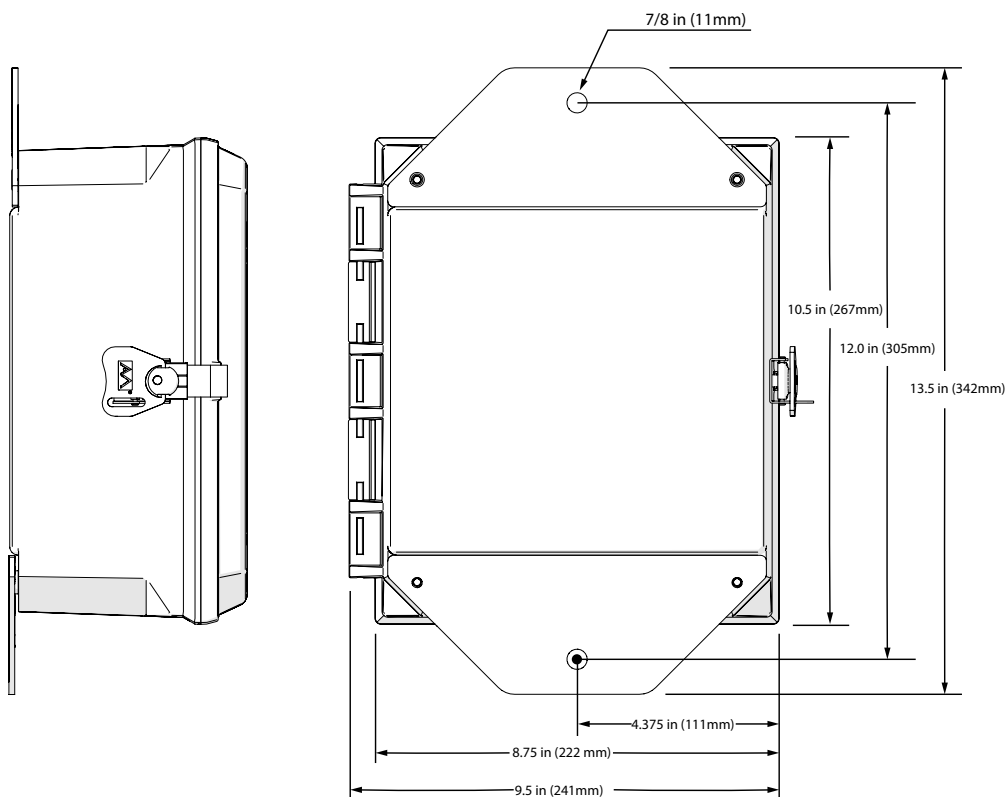
- Light sensor for configurable auto-dimming feature

#### TC Connect™ Human Interface

- WiFi Connectivity on any device - No Internet Connection required
- Mode Selection: Collaboration, Push 2 Cross, etc.
- Configurable Flash Duration
- Unified Wireless Collaboration Activation and Setting
- Configurable auto dimming profiles

#### Other Info

- Wireless activation within 100 mS
- Wireless range of 1000'/305m
- -34° C to +50° C operating range (varies with battery type used)
- 5 year warranty, excluding batteries



## Wrong Way Sign Enhancement Ring

**Flashing Sign System** Enhancement Rings are the next evolution in road signage. Designed to enhance existing road signs. Engineered to provide lightning fast installation, exceptional visibility in any condition, and intuitive driver calming beyond that of reflective sheeting.



## Specifications

### Illumination

- LEDs configured around perimeter of sign, within border (fully MUTCD compliant design)
- LED Pitch: 1.9" (4.8cm) (on centers)
- Red LEDs with 30° Viewing Angle
- DG3 white reflective sheeting applied to ring face for natural appearance

### Environmental

- Nema 4x Enclosure
- Potted electronics (hermetically sealed)
- -34° C to + 60° C operating range (-29° F to +140° F)

### Construction

- 14 gauge 5052 aluminum construction
- Individually lensed LEDs recessed behind faceplate
- Ring Depth: 0.4"/10.0mm to minimize impact on natural sign appearance
- No mounting or wiring exposed on reverse of sign

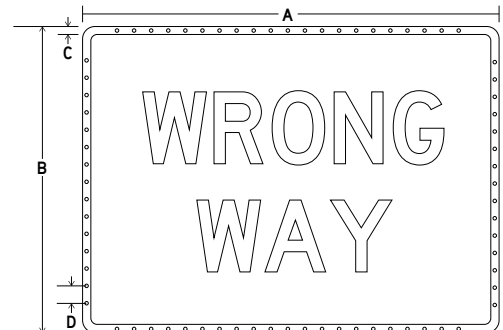
### Compatibility

- Integrates with all Trafficalm SA300 Controllers and Collaborators and can be speed (radar) activated

## Details

### Physical Description

- Available Sizes: 36"x24", 42"x30", and 48"x36"
- Retrofits to any existing Wrong Way Sign manufactured to MUTCD requirements of corresponding size
- Mounting: all LED hardware mounted within the white border of the sign. Mounted either with adhesive backing or included self tapping screws. Rivets may be utilized to improve tamper resistance
- MUTCD compliant LED placement and usage
- 10ft. (3m) single cable extension to reach Controller or Collaborator



MUTCD Sign Size	Part Number	Ring Width (A)	Ring Height (B)	Ring Width (C)	LED Offset (D)	LED Count	Light Output (cd)	Power (Watts)
36"x24"	M75-R3624-WR03	36"/91cm	24"/61cm	.625"/1.6cm	1.9"/4.8cm	48	324000	3.84
42"x30"	M75-R4230-WR03	42"/106cm	30"/76cm	.625"/1.6cm	1.9"/4.8cm	60	405000	4.80
48"x36"	M75-R4836-WR03	48"/122cm	36"/91cm	.625"/1.6cm	1.9"/6.1cm	72	486000	5.76

# FLASHING SIGN SYSTEMS

## Do Not Enter Sign Enhancement Ring with Red LEDs

**Flashing Sign System** Enhancement Rings are the next evolution in road signage. Designed to enhance existing road signs. Engineered to provide lightning fast installation, exceptional visibility in any condition, and intuitive driver calming beyond that of reflective sheeting.



## Specifications

### Illumination

- LEDs configured around perimeter of sign, within border (fully MUTCD compliant design)
- LED Pitch: 1.9" (4.8cm) (on centers)
- Red LEDs with 30° Viewing Angle
- DG3 white reflective sheeting applied to ring face for natural appearance

### Environmental

- Nema 4x Enclosure
- Potted electronics (hermetically sealed)
- -34° C to + 60° C operating range (-29° F to +140° F)

### Construction

- 14 gauge 5052 aluminum construction
- Individually lensed LEDs recessed behind faceplate
- Ring Depth: 0.4"/10.0mm to minimize impact on natural sign appearance
- No mounting or wiring exposed on reverse of sign

### Compatibility

- Integrates with all Trafficalm Controllers and Collaborators and can be push button, speed (radar), time clock, or sensor activated

## Details

### Physical Description

- Available Sizes: 36", 48"
- Retrofits to any existing Do Not Enter Sign manufactured to MUTCD requirements of corresponding size
- Mounting: all LED hardware mounted within the white border of the sign. Mounted either with adhesive backing or included self tapping screws. Rivets may be utilized to improve tamper resistance
- MUTCD compliant LED placement and usage
- 10ft. (3m) single cable extension to reach Controller or Collaborator

MUTCD Sign Size	Part Number	Ring Width	Ring Height	Ring Width	LED Offset	LED Count	Light Output (cd)	Power (Watts)
36"x36"	M75-R3636-WR06	36"/91cm	36"/61cm	.625"/1.6cm	1.9"/4.8cm	72	486000	5.76
48"x48"	M75-R4848-WR06	48"/106cm	48"/76cm	.625"/1.6cm	1.9"/4.8cm	84	567000	6.72

# TRAFFICALM™

## FLASHING SIGN SYSTEMS

Model M75-SA300-RDR0 **Radar Detector**

### Features

#### Physical Description

- Size: 3.75" W x 2.5" H x 2.25" D Weight: 2.5 Lbs
- Mounting: Universal bracket accommodates most industry standard round or square posts of suitable load rating

#### Detection

- Speed Resolution Min 5mph, Max 139 (8kph to 223kph)
- K-Band (24.15GHz), direction sensing, license free (FCC Part 15 compliant)
- Range: 1000 ft. (365m)

#### Compatibility

- Integrates with all Trafficalm SA300 Controllers and Collaborators

#### Environmental

- Nema 4 Enclosure
- Potted electronics (hermetically sealed)
- -34° C to + 60° C operating range (-29° F to +140° F)

