

# Stop Sign Flashing LED Ring

## FLASHING SIGN SYSTEM



### STOP SIGN FLASHING LED RING

Designed to LED enhance any existing or new R1-1 STOP Sign. Engineered to provide ease of installation, unmistakable visibility under any conditions, and intuitive driver calming beyond that of just reflective sheeting.

TraffiCalm is unmatched in our dedication to advancing road safety. Our Flashing Sign Systems provide clear and proven modernized traffic signs that remain fully compliant with the Federal Highway Administration's (FHWA) Manual on Uniform Traffic Control Devices (MUTCD).

TraffiCalm® Flashing Sign Systems offer scheduled, radar activated, or 24/7 operation, AC or solar power, hassle-free install, retrofit design, and wireless communication features.

## FEATURES

### Highly Visible LED Stop Signs

TraffiCalm fully outlines the shape of the sign, with the most LEDs on the market, for a bright, visible sign in any environmental condition.

### Retrofittable LED Rings

Utilize existing signage and add our LED sign rings for a more cost-effective solution.

### Ruggedized Electronics

All electronics, radios, and LEDs are fully epoxy-potted and environmentally sealed. The entire pole with the sign, controller, solar panels, and batteries can be fully submerged and still operate.

### Ease of Installation

The ease of installation allows for quick setup on any existing sign post.

### 100% MUTCD Compliant

The MUTCD allows LEDs to enhance standard highway warning and regulatory signs and to outline either the sign itself or the words and symbols on the sign. MUTCD specifications indicate that; "If used, the LEDs shall be the same color as the sign legend, border, or background. If flashed, all LED units on an installation shall flash simultaneously at a rate of more than 50 and less than 60 times per minute." TraffiCalm® Systems are fully compliant.

### Made in the USA

TraffiCalm® Flashing Sign Systems are manufactured in the USA in an ISO 9001:2015 certified facility, meeting and exceeding industry and state testing requirements. TraffiCalm® signs are unmatched in durability, brightness, accuracy, and ease of installation and use. Build America/Buy America Compliant.

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# Stop Sign Flashing LED Ring <sup>®</sup>

A Pelco Products Company

## SPECIFICATIONS

### ILLUMINATION

LEDs configured around perimeter of sign, within border (fully MUTCD compliant design)

LED Pitch: 1.9" (4.8 cm) on centers

Red LEDs with 30° Viewing Angle

DG3 white reflective sheeting applied to ring face matching the border of R1-1 STOP signs

LED rated lifetime of 100,000 hours

### COMPATIBILITY

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

### CONSTRUCTION

14 gauge 5052 aluminum construction

Individually lensed LEDs recessed behind faceplate

Ring Depth: 0.4" (10.2 mm) to minimize impact on natural sign appearance

No mounting or wiring exposed on reverse of sign

All Wiring is UL 2464 rated

### ENVIRONMENTAL

NEMA 4x Enclosure

Potted electronics (hermetically sealed)

-40° F to +140° F operating range

(-40° C to + 60° C)

### DESCRIPTION

This item can come as a retrofit kit (AC or Solar controller and LED Flashing Ring) or a complete system including the retroreflective STOP sign

## DETAILS

### PHYSICAL DESCRIPTIONS

Available Sizes: 24" (61 cm), 30" (76.2 cm), 36" (91.4 cm) or 48" (121.9 cm)

Retrofits to any existing Stop 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

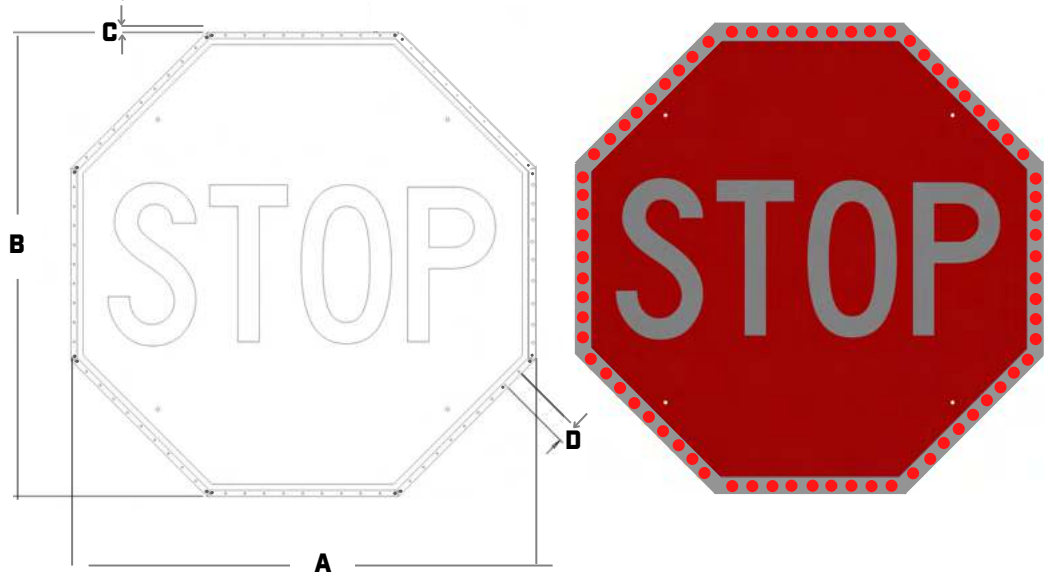
10 ft (3 m) single cable extension to reach Controller or Collaborator

This item can ship as a kit that can be mounted to a new or existing sign OR a complete system with sign

### WARRANTY and SERVICE

5 year limited warranty

Unlimited tech support from US based factory technicians



Part Number	MUTCD Sign Size	Ring Length [A]	Ring Height [B]	Ring Width [C]	LED Offset [D]	LED Count	Light Output [cd]	Power [Amps]
M75-R2424-WR01	24" *	24"/61cm	24"/61cm	.6"/1.6cm	1.94"/4.8cm	40	270000	.320
M75-R3030-WR01	30"	30"/76.2cm	30"/76.2cm	.6"/1.6cm	1.94"/4.8cm	48	324000	.384
M75-R3636-WR01	36"	36"/91.4cm	36"/91.4cm	.6"/1.6cm	1.94"/4.8cm	48	324000	.384
M75-R4848-WR01	48"	48"/121.9cm	48"/121.9cm	.6"/1.6cm	1.94"/4.8cm	72	486000	.576

\*Non-MUTCD Compliant

# Yield Sign Flashing LED Ring

## FLASHING SIGN SYSTEM



### YIELD SIGN FLASHING LED RING

Designed to LED enhance any existing or new R1-2 YIELD sign. Engineered to provide ease of installation, unmistakable visibility under any conditions, and intuitive driver calming beyond that of just reflective sheeting.

TraffiCalm is unmatched in our dedication to advancing road safety. Our Flashing Sign Systems provide clear and proven modernized traffic signs that remain fully compliant with the Federal Highway Administration's (FHWA) Manual on Uniform Traffic Control Devices (MUTCD).

TraffiCalm® Flashing Sign Systems offer scheduled, radar activated, or 24/7 operation, AC or solar power, hassle-free install, retrofit design, and wireless communication features.

## FEATURES

### Highly Visible LED Warning Signs

TraffiCalm fully outlines the shape of the sign, with the most LEDs on the market, for a bright, visible sign in any environmental condition.

### Retrofittable LED Rings

Utilize existing signage and add our LED sign rings for a more cost-effective solution

### Ruggedized Electronics

All electronics, radios, and LEDs are fully epoxy-potted and environmentally sealed. The entire pole with the sign, controller, solar panels and batteries can be fully submerged and still operate.

### Ease of Installation

The ease of installation allows for quick setup on any existing sign post.

### 100% MUTCD Compliant

The MUTCD allows LEDs to enhance standard highway warning and regulatory signs and to outline either the sign itself or the words and symbols on the sign. MUTCD specifications indicate that; "If used, the LEDs shall be the same color as the sign legend, border, or background. If flashed, all LED units on an installation shall flash simultaneously at a rate of more than 50 and less than 60 times per minute." TraffiCalm® Systems are fully compliant.

### Made in the USA

TraffiCalm® Flashing Sign Systems are manufactured in the USA in an ISO 9001:2015 certified facility, meeting and exceeding industry and state testing requirements. TraffiCalm® signs are unmatched in durability, brightness, accuracy, and ease of installation and use. Build America/Buy America Compliant.

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## SPECIFICATIONS

### ILLUMINATION

LEDs configured around perimeter of sign, within border (fully MUTCD compliant design)

LED Pitch: .35" (.89 cm) on centers; within the cluster

LEDs viewing angle: 30°

DG3 white reflective sheeting applied to ring face for uniformity with R1-2 YIELD Sign

LED rated lifetime of 100,000 hours

### COMPATIBILITY

Integrates with all Trafficalm<sup>®</sup> Controllers and Collaborators, speed (radar), time clock or sensor activated

### 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

All Wiring is UL 2464 rated

### ENVIRONMENTAL

NEMA 4X Enclosure

Potted electronics (hermetically sealed)

-40°F to +140° F operating range (-40° C to +60° C)

### WARRANTY and SERVICE

5 year limited warranty

Unlimited tech support from US based factory technicians

## DETAILS

### PHYSICAL DESCRIPTION

Available Sizes: 30" (76.2 cm), 36" (91.44 cm), and 48" (121.92 cm)

Retrofits to any existing R1-2 Yield sign manufactured to MUTCD requirements of corresponding size

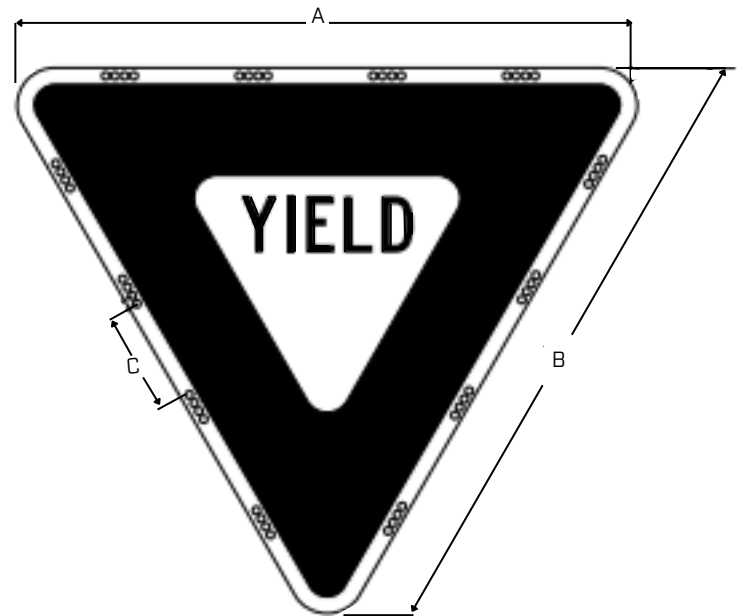
Mounting: All LED hardware mounted within the printed white border of the sign. Mounted either with adhesive backing or included self tapping screws. Rivets may be utilized to improve tamper resistance

MUTCD compliant LED placement and usage

10ft (3 m) single cable extension to reach Controller or Collaborator

This item can ship as a kit that can be mounted to a new or existing sign OR a complete system with sign

LED rated lifetime of 100,000 hours



Part Number	MUTCD Sign Size	Ring Length (A)	Ring Height (B)	LED Group Offset (C)	LED Count	Light Output	Power (Amps)
M75-R3030-WR49	30"	30"/76 cm	30"/76 cm	.35"/.89 cm	48	324000	.288
M75-R3636-WR49	36"	36"/91 cm	36"/91 cm	.35"/.89 cm	48	324000	.288
M75-R4848-WR49	48"	48"/122cm	48"/122cm	.35"/.89 cm	72	486000	.432

# Warning Sign Flashing LED Ring

FLASHING SIGN SYSTEM



## WARNING SIGN FLASHING LED RING

Designed to LED enhance any existing or new diamond or square shaped MUTCD road signage. Engineered to provide ease of installation, unmistakable visibility under any conditions, and intuitive driver calming beyond that of just reflective sheeting.

TraffiCalm is unmatched in our dedication to advancing road safety. Our Flashing Sign Systems provide clear and proven modernized traffic signs that remain fully compliant with the Federal Highway Administration's (FHWA) Manual on Uniform Traffic Control Devices (MUTCD).

TraffiCalm® Flashing Sign Systems offer scheduled, radar activated, or 24/7 operation, AC or solar power, hassle-free install, retrofit design, and wireless communication features.

## FEATURES

### Highly Visible LED Warning Signs

TraffiCalm fully outlines the shape of the sign, with the most LEDs on the market, for a bright, visible sign in any environmental condition.

### Retrofittable LED Rings

Utilize existing signage and add our LED sign rings for a more cost-effective solution.

### Ruggedized Electronics

All electronics, radios, and LEDs are fully epoxy-potted and environmentally sealed. The entire pole with the sign, controller, solar panels, and batteries can be fully submerged and still operate.

### Ease of Installation

The ease of installation allows for quick setup on any existing sign post.

### 100% MUTCD Compliant

The MUTCD allows LEDs to enhance standard highway warning and regulatory signs and to outline either the sign itself or the words and symbols on the sign. MUTCD specifications indicate that; "If used, the LEDs shall be the same color as the sign legend, border, or background. If flashed, all LED units on an installation shall flash simultaneously at a rate of more than 50 and less than 60 times per minute." TraffiCalm® Systems are fully compliant.

### Made in the USA

TraffiCalm® Flashing Sign Systems are manufactured in the USA in an ISO 9001:2015 certified facility, meeting and exceeding industry and state testing requirements. TraffiCalm® signs are unmatched in durability, brightness, accuracy, and ease of installation and use. Build America/Buy America Compliant.

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## SPECIFICATIONS

### ILLUMINATION

LEDs configured around perimeter of sign within the border (fully MUTCD compliant design)

LED Pitch: .35" (.89 cm) on centers; within the cluster

Cluster Pitch: 6" (15.2 cm) on center

Amber LEDs with 15° Viewing Angle

LED rated lifetime of 100,000 hours

### COMPATIBILITY

Integrates with all TrafficCalm® Controllers and Collaborators and can be speed activated (radar), push button activated, sensor activated, and scheduled via time clock or run 24/7

### CONSTRUCTION

14 gauge 5052 aluminum construction

Individually lensed LEDs recessed behind faceplate

All Wiring is UL 2464 rated

### ENVIRONMENTAL

NEMA 4x Enclosure

Potted electronics (hermetically sealed)

-40° F to +140° F operating range (-40° C to + 60° C)

### WARRANTY and SERVICE

5 year limited warranty

Unlimited tech support from US based factory technicians

## DETAILS

### PHYSICAL DESCRIPTIONS

Available Sizes: 24" (61 cm), 30" (76.2 cm), 36" (91.4 cm) or 48" (121.9 cm)

Retrofits to any existing Warning Sign manufactured to MUTCD requirements of corresponding size

Mounting: All LED hardware mounted around the perimeter of the sign, within the border.

Mounted either with adhesive backing or included self-tapping screws. Rivets may be utilized to improve tamper resistance

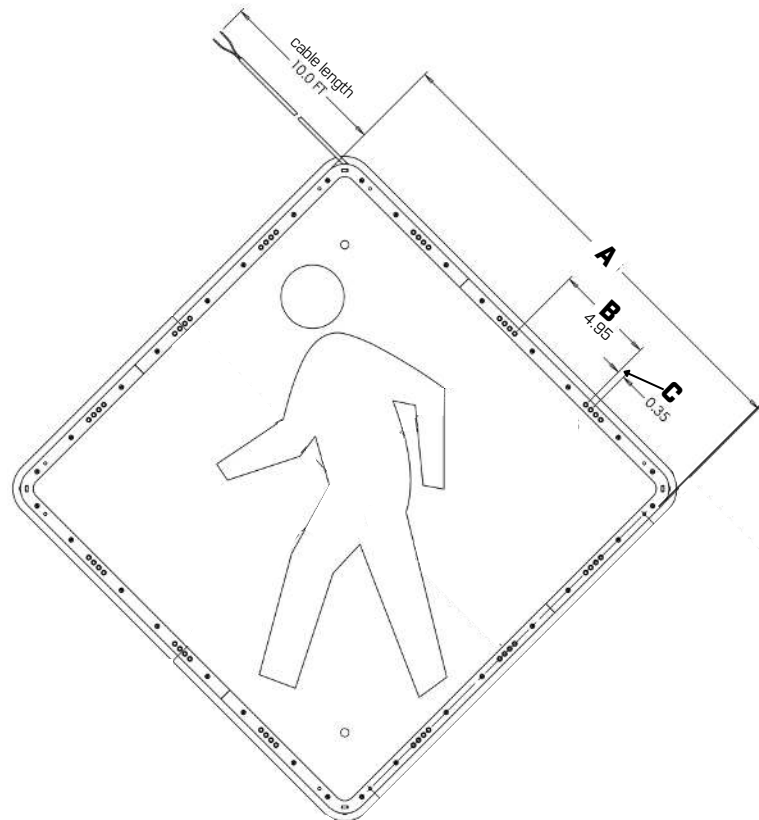
MUTCD compliant LED placement and usage

10 ft (3 m) single cable extension to reach Controller or Collaborator

Ring can be factory installed to a new static sign

This item can ship as a kit that can be mounted to a new or existing sign OR a complete system with sign

MUTCD Sign Size	Part Number	Ring Length (A)	LED Group Offset (B)	LED Pitch in Group (C)	LED Count	Light Output	Power (Amps)
24"	M75-R2424-BA47	23.3"/7.6cm	4.95"/15cm	.35"/.89cm	48	936000	.288
30"	M75-R3030-BA47	29.0"/73.7cm	4.95"/15cm	.35"/.89cm	64	1248000	.384
36"	M75-R3636-BA47	34.8"/88.4cm	4.95"/15cm	.35"/.89cm	80	1560000	.480
48"	M75-R4848-BA47	46.5"/188.1cm	4.95"/15cm	.35"/.89cm	112	21840000	.672



# School Crossing LED Ring (S1-1)

## FLASHING SIGN SYSTEM



### SCHOOL CROSSING LED RING (S1-1)

Designed to enhance existing road signage. Engineered to provide ease of installation, unmistakable visibility under any conditions, and intuitive driver calming beyond that of just reflective sheeting.

TrafficCalm is unmatched in our dedication to advancing road safety. Our Flashing Sign Systems provide clear and proven modernized traffic signs that remain fully compliant with the Federal Highway Administration's (FHWA) Manual on Uniform Traffic Control Devices (MUTCD).

TrafficCalm's Flashing Sign Systems offer scheduled, radar-activated, or 24/7 operation, AC or solar power, hassle-free install, retrofit design, and wireless communication features.

## FEATURES

### Highly Visible LED Warning Signs

TrafficCalm fully outlines the shape of the sign, with the most LEDs on the market, for a bright, visible sign in any environmental condition.

### Retrofittable LED Rings

Utilize existing signage and add our LED sign rings for a more cost-effective solution

### Ruggedized Electronics

All electronics, radios, and LEDs are fully epoxy-potted and environmentally sealed. The entire pole with the sign, controller, solar panels and batteries can be fully submerged and still operate.

### Ease of Installation

The ease of installation allows for quick setup on any existing sign post.

### 100% MUTCD Compliant

The MUTCD allows LEDs to enhance standard highway warning and regulatory signs and to outline either the sign itself or the words and symbols on the sign. MUTCD specifications indicate that; "If used, the LEDs shall be the same color as the sign legend, border, or background. If flashed, all LED units on an installation shall flash simultaneously at a rate of more than 50 and less than 60 times per minute." TrafficCalm® Systems are fully compliant.

### Made in the USA

TrafficCalm® Flashing Sign Systems are manufactured in the USA in an ISO 9001:2015 certified facility, meeting and exceeding industry and state testing requirements. TrafficCalm® signs are unmatched in durability, brightness, accuracy, and ease of installation and use. Build America/Buy America Compliant.

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## SPECIFICATIONS

### ILLUMINATION

LEDs configured within the sign itself (fully MUTCD compliant design)

LED Pitch: .35" (.89 cm) [on centers] within the cluster

4-LED Cluster Pitch: 6 in (15.24 cm) [on center]

Amber LEDs with 15° Viewing Angle

LED rated lifetime of 100,000 hours

### COMPATIBILITY

Integrates with all Trafficalm SA300 Controllers and Collaborators and can be push button, speed (radar), time clock or sensor activated

### CONSTRUCTION

14 gauge 5052 aluminum construction

Individually lensed LEDs recessed behind faceplate

All Wiring is UL 2464 rated

### ENVIRONMENTAL

NEMA 4X Enclosure

Potted electronics (hermetically sealed)

-40° F to + 140° F operating range [-40° C to +60° C]

### SERVICE and WARRANTY

5 year limited warranty

Unlimited tech support from US based factory technicians

## DETAILS

### PHYSICAL DESCRIPTION

Available Sizes: 30" x 30" (76.2 cm x 76.2 cm) and 36" x 36" (91.4 cm x 91.4 cm)

Retrofits to any existing School (S1-1) sign manufactured to MUTCD requirements of corresponding size

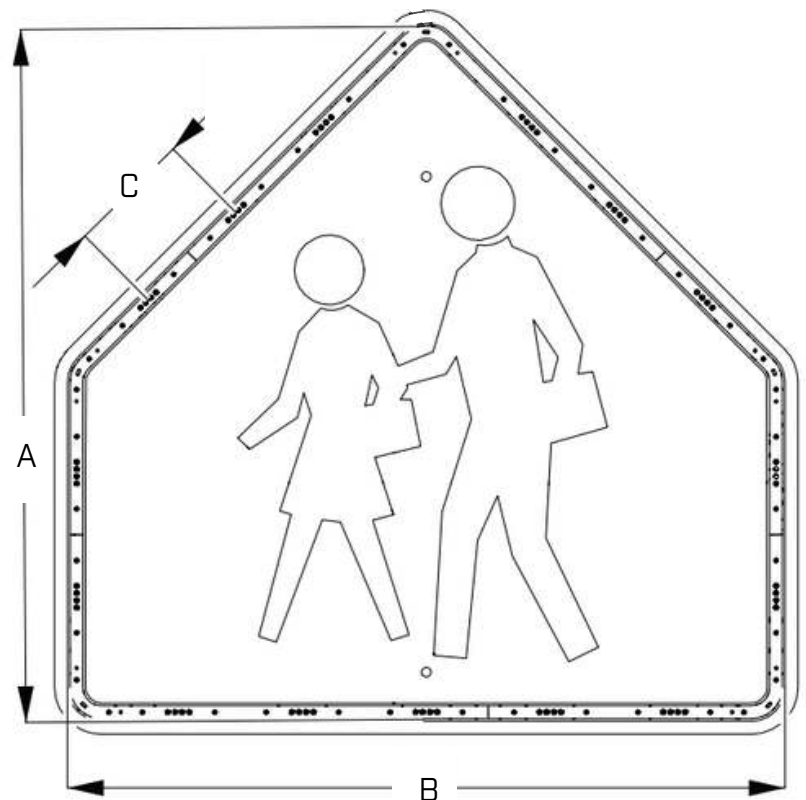
Mounting: All LED hardware mounted within the printed border of the sign. Mounted either with adhesive backing or included self tapping screws. Rivets may be utilized to improve tamper resistance

MUTCD compliant LED placement and usage

10ft (3 m) single cable extension to reach Controller or Collaborator

Ring can be factory installed to a new static sign, per the available part numbers shown below

This item can ship as a kit that can be mounted to a new or existing sign OR a complete system with sign



MUTCD Sign Size	Part Number	Ring Height (A)	Ring Width (B)	LED Pitch	LED Group offset (C)	LED Count	Light Output [candela]	Power [Amps]
30x30	M75-R3030-BA45	29"/73.7cm	29"/73.7cm	.35"/.89cm	6"/15cm	56	109,200	.336
36x36	M75-R3636-BA45	35"/88.9cm	35"/88.9cm	.35"/.89cm	6"/15cm	60	117,000	.360



# Railroad Crossing Ahead Flashing LED Sign (W10-1)

FLASHING SIGN SYSTEM



## RAILROAD CROSSING AHEAD FLASHING LED SIGN (W10-1)

TraffiCalm Flashing Sign Systems dramatically improve awareness of roadway signage. Rail crossings present a unique challenge to drivers, with potentially catastrophic results. Our Flashing LED RAILROAD CROSSING AHEAD Signs are a proven solution to bring greater awareness to drivers, alerting them to look for trains at the crossing.

## FEATURES

### Highly Visible LED Warning Signs

TraffiCalm outlines the shape of the X, providing an unmistakable warning of the railroad crossing. The sign is a bright and visible sign in any environmental condition.

### Complete LED Sign System

Due to the unique shape of this sign, it comes as a complete unit with an integrated LED ring plate and retro-reflective circular sign.

### Ruggedized Electronics

All electronics, radios, and LEDs are fully epoxy-potted and environmentally sealed. The entire pole with the sign, controller, solar panels, and batteries can be fully submerged and still operate.

### Ease of Installation

The ease of installation allows for quick setup on any existing sign post.

### 100% MUTCD Compliant

The MUTCD allows LEDs to enhance standard highway warning and regulatory signs and to outline either the sign itself or the words and symbols on the sign. MUTCD specifications indicate that; "If used, the LEDs shall be the same color as the sign legend, border, or background. If flashed, all LED units on an installation shall flash simultaneously at a rate of more than 50 and less than 60 times per minute." TraffiCalm® Systems are fully compliant.

### Made in the USA

TraffiCalm® Flashing Sign Systems are manufactured in the USA in an ISO 9001:2015 certified facility, meeting and exceeding industry and state testing requirements. TraffiCalm® signs are unmatched in durability, brightness, accuracy, and ease of installation and use. Build America/Buy America Compliant.

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## SPECIFICATIONS

### ILLUMINATION

LEDs configured in clusters of 4 within the symbol of the sign (fully MUTCD compliant design)

LED Pitch: .35" (.89cm) within the clusters

Amber LEDs with 15° Viewing Angle

Powder coated black assembly for natural appearance that matches the sign's symbol and placement

LED rated lifetime of 100,000 hours

### COMPATIBILITY

Integrates with all TrafficCalm Controllers and Collaborators and can be scheduled to run 24/7, be vehicle-activated with a radar sensor, or be train-activated with various sensors and inputs.

### CONSTRUCTION

14 gauge 5052 aluminum faceplate, applied to a milled high-density polyethylene core, providing high impact and environmental resistance.

Individually lensed LEDs recessed behind faceplate

Sign depth: 0.45"/1.14 cm to minimize impact on natural sign appearance

No mounting or wiring exposed on reverse or face of sign

All Wiring is UL 2464 rated

### ENVIRONMENTAL

NEMA 4x Enclosure

Fully epoxy-potted electronics (hermetically sealed)

-40° F to +140° F operating range (-40° C to + 60° C)

### WARRANTY and SERVICE

5 year limited warranty

Unlimited tech support from US based factory technicians

## DETAILS

### PHYSICAL DESCRIPTIONS

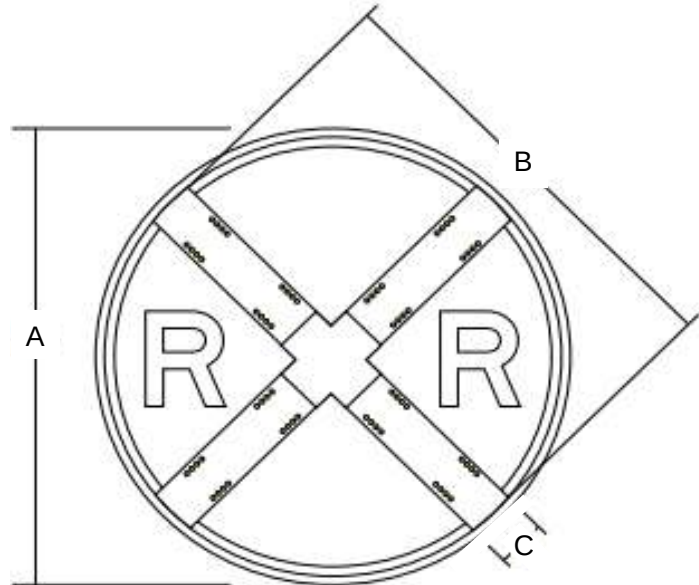
Available Sizes: 30" (76.2 cm), 36" (91.44 cm), and 48" (121.92 cm)

Mounting: All LED hardware is mounted within the rugged housing within the LED ring plate and protected by an aluminum face plate.

This item comes as a complete integrated sign and LED ring plate.

MUTCD compliant LED placement and usage

10 ft (3 m) single cable extension to reach Controller or Collaborator



Part Number	MUTCD Sign Size	Ring Length (A)	Ring Width (B)	Cross Ring Width (C)	LED Count	Light Output (candela)	Power (Amps)
M75-R3030-BA44	30"	30"/76.2cm	29.25"/574.3cm	3"/7.62cm	64	1249000	.384
M75-R3636-BA44	36"	36"/91.44cm	35"/88.9cm	4"/10.16cm	96	1873500	.576
M75-R4848-BA44	48"	48"/121.92cm	46.5"/118.11cm	5"/12.7cm	96	1873500	.576

# Speed Limit Sign Flashing LED Ring

## FLASHING SIGN SYSTEM



### SPEED LIMIT SIGN FLASHING LED RING

Designed to LED enhance any existing or new R2-1 Regulatory Speed Limit Sign. Flashing Speed Limit Signs can flash 24/7 or, when equipped with radar sensors, can flash when vehicles exceed the posted speed limit. Both options typically slow speeding drivers.

TraffiCalm is unmatched in its dedication to advancing road safety. Our Flashing Sign Systems provide clear and proven modernized traffic signs that remain fully compliant with the Federal Highway Administration's (FHWA) Manual on Uniform Traffic Control Devices (MUTCD).

TraffiCalm® Flashing Sign Systems offer scheduled, radar-activated, or 24/7 operation, AC or solar power, hassle-free installation, retrofit design, and wireless communication features.

## FEATURES

### Highly Visible Flashing Speed Limit Sign Ring

TraffiCalm fully outlines the shape of the sign with the most LEDs on the market for a bright, visible sign in any environmental condition.

### Retrofittable LED Rings

Utilize existing signage and add our LED sign rings for a more cost-effective solution.

### Ruggedized Electronics

All electronics, radar sensors, and LEDs are fully epoxy-potted and environmentally sealed. The entire pole with the sign, controller, solar panels, and batteries can be fully submerged and still operate.

### Ease of Installation

The ease of installation allows for quick setup on any existing sign post.

### 100% MUTCD Compliant

The MUTCD allows LEDs to enhance standard highway warning and regulatory signs and to outline either the sign itself or the words and symbols on the sign. MUTCD specifications indicate that "If used, the LEDs shall be the same color as the sign legend, border, or background. If flashed, all LED units on an installation shall flash simultaneously at a rate of more than 50 and less than 60 times per minute." TraffiCalm® Systems are fully compliant.

### Made in the USA

TraffiCalm® Flashing Sign Systems are manufactured in the USA in an ISO 9001:2015 certified facility, meeting and exceeding industry and state testing requirements. TraffiCalm® signs are unmatched in durability, brightness, accuracy, ease of installation, and use. Build America/Buy America Compliant.

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## SPECIFICATIONS

### ■ Illumination

LEDs configured in clusters of three within \ the border around perimeter of sign for enhanced brightness (fully MUTCD compliant design)

LED Pitch within cluster: .375 in (.95 cm) (on center)

Cluster Pitch (on center): 1.9" (4.8cm)

White LEDs with 30° Viewing Angle, InGaN chemistry, and supports EN12966-1 white color class C2

LEDs rated lifetime of 100,000 hours

### ■ Construction

14 gauge 5052 aluminum construction

Individually lensed LEDs recessed behind faceplate

All Wiring is UL 2464 rated

### ■ Environmental

NEMA 4X Enclosure

Epoxy-potted electronics (hermetically sealed)

-40°F to +140°F operating range (-40° C to + 60° C)

### ■ Compatibility

Any TrafficCalm Flashing Sign System Controller or Collaborator, including radar-activated systems.

TrafficCalm iQ1200 and iQ1800 Radar Speed Signs with integrated "beacon" output.

### ■ Warranty and Service

5-year limited warranty, 1-year on batteries

Unlimited tech support from US based factory technicians

## DETAILS

### ■ Physical Description

Available Sizes: 24" x 30" (61 cm x 76.2 cm) or 30" x 36" (76.2 cm x 91.4 cm) or 36" x 48" (91.4 cm x 121.9 cm)

Retrofits to any existing Speed Limit Sign manufactured to MUTCD requirements of corresponding size

All LED hardware mounted within the black border of the sign. Shipped with 3M VHB adhesive backing and self-tapping screws for retrofit installation. If installed on a static sign at the factory, then installed with 3M VHB adhesive backing and rivets.

MUTCD compliant LED placement and usage

10 ft (3 m) single cable extension to reach Controller

Ring can be factory installed to a new static sign, per the available part numbers shown below

This item can come as a retrofit kit (solar or AC controller, radar, and LED flashing ring) OR a complete system with static speed limit sign

### ■ System Description

A complete LED Flashing Speed Limit Sign System consists of a TrafficCalm Controller, an LED Flashing Ring, a static retroreflective SPEED LIMIT Sign, an optional Smart Radar Sensor, and poles/posts.

As with all TrafficCalm® products, retrofit installation utilizes the existing sign and post to minimize costs and construction time. Optional retroreflective speed limit signs with factory-installed LED rings are available.



Part Number	MUTCD Sign Size (R2-1)	Ring (Width)	Ring (Height)	LED Pitch	LED (Group Offset)	LED Count	Light Output (milli-candela)	Power (Amps)
M75-R2430-BW32	24" x 30" (61 cm x 76.2 cm)	23.63" (60.02 cm)	29.63" (75.26 cm)	.38" (.97 cm)	1.9" (4.83 cm)	42	708,400	.336
M75-R3036-BW32	30" x 36" (76.2 cm x 91.4 cm)	29.5" (74.17 cm)	35.5" (89.41 cm)	.38" (.97 cm)	1.9" (4.83 cm)	56	708,400	.504
M75-R3648-BW32	36" x 48" (91.4 cm x 121.9 cm)	35.38" (85.87 cm)	47.38" (120.35 cm)	.38" (.97 cm)	1.9" (4.83 cm)	72	1,214,400	.576

# FLASHING SIGN SYSTEMS



## School Zone Sign Enhancement Ring

SignAlert™ Enhancement Rings are the next evolution in road signage. Engineered to provide lightning fast installation, exceptional visibility in any condition, and intuitive driver calming.

### Details

#### Illumination

- LEDs configured in clusters of four around perimeter of sign (fully MUTCD compliant design)
- LED Pitch within cluster: .375 in (.95cm) (on center)
- Cluster Pitch: 6 in (15.24cm) (on center)
- 15 Amber LEDs with 15° Viewing Angle
- 45 White LEDs with 30° Viewing Angle

#### 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

#### Compatibility

- Integrates with all Trafficalm SA300 Controllers and Collaborators and can be push button, speed (radar), time clock, or sensor activated

### Dimensions

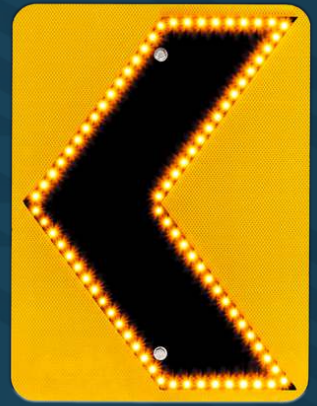
#### Physical Description

- Available Size: 24x48 (to fit to an S5-1 Sign)
- Retrofits to any existing School Zone Speed Sign manufactured to MUTCD requirements of corresponding size
- Mounting: all LED hardware mounted within the printed 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)	LED Pitch	LED Group offset)	LED Count	Light Output (cd)	Power (Watts)
24x48	M75-R2448-BW32	23.25 in	47.25	.375"	6"	60	759000	4.80

# Chevron Sign Flashing LED Ring

## FLASHING SIGN SYSTEM



### CHEVRON SIGN FLASHING LED RING

Designed to enhance existing road signage as part of a TrafficCalm® Curve Warning System with Sequencing Chevrons. The Federal Highway Administration has designated these types of systems as "Proven Safety Countermeasures," and their studies indicate that Sequential Dynamic Chevrons provide a 60% reduction in fatal and injury crashes\*.

TrafficCalm® is unmatched in its dedication to advancing road safety. Our Flashing Sign Systems provide highly visible, tested, modernized traffic signs that are fully compliant with the Federal Highway Administration's Manual on Uniform Traffic Control Devices (MUTCD).

TrafficCalm® Flashing Sign Systems offer scheduled, radar-activated, or 24/7 operation with AC or solar power, hassle-free installation, retrofit design, and wireless communication features.

### FEATURES

#### Highly Visible LED Warning Signs

TrafficCalm® fully outlines the shape of the Chevron symbol with the most LEDs on the market for a bright, visible sign in any environmental condition.

#### Retrofittable LED Rings

Utilize existing signage and add our LED sign rings for a more cost-effective solution.

#### Ruggedized Electronics

All electronics, radios, and LEDs are fully epoxy-potted and environmentally sealed. The entire pole with the sign, controller, solar panels, and batteries can be fully submerged and still operate.

#### Ease of Installation

The ease of installation allows for quick setup on any existing sign post.

#### 100% MUTCD Compliant

The MUTCD allows LEDs to enhance standard highway warning and regulatory signs and to outline either the sign itself or the words and symbols on the sign. MUTCD specifications indicate that "If used, the LEDs shall be the same color as the sign legend, border, or background. If flashed, all LED units on an installation shall flash simultaneously at a rate of more than 50 and less than 60 times per minute." TrafficCalm® Systems are fully compliant.

#### Made in the USA

TrafficCalm® Flashing Sign Systems are manufactured in the USA in an ISO 9001:2015 certified facility, meeting and exceeding industry and state testing requirements. TrafficCalm® signs are unmatched in durability, brightness, accuracy, and ease of installation and use. Build America/Buy America Compliant.

\*Call for Safety Studies

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## SPECIFICATIONS

### ■ Illumination

LEDs configured around perimeter of the Chevron symbol (fully MUTCD compliant design)

LED Pitch: .85"/2.2cm (on centers)

Amber LEDs with 15° Viewing Angle

Black powder-coated faceplate for natural appearance

LED rated lifetime of 100,000 hours

### ■ Compatibility

Integrates with all TrafficCalm® Controllers and Collaborators and can be vehicle (radar sensor), time clock activated or run 24/7

### ■ Construction

14 gauge 5052 aluminum construction

Individually lensed LEDs recessed behind faceplate

Ring Depth: 0.4"/10mm to minimize impact on natural sign appearance

All Wiring is UL 2464 rated

### ■ Environmental

NEMA 4x Enclosure

Potted electronics (hermetically sealed)

-40° F to + 140° F operating range (-40° C to +60° C)

NEMA 4x Enclosure

### ■ Warranty and Service

5 year limited warranty

Unlimited tech support from US based factory technicians

## DETAILS

### ■ Physical Descriptions

Available Sizes: 18"x24", 24"x30", 30"x36", and 36"x48"

Retrofits to any existing Chevron sign manufactured to MUTCD requirements of corresponding size

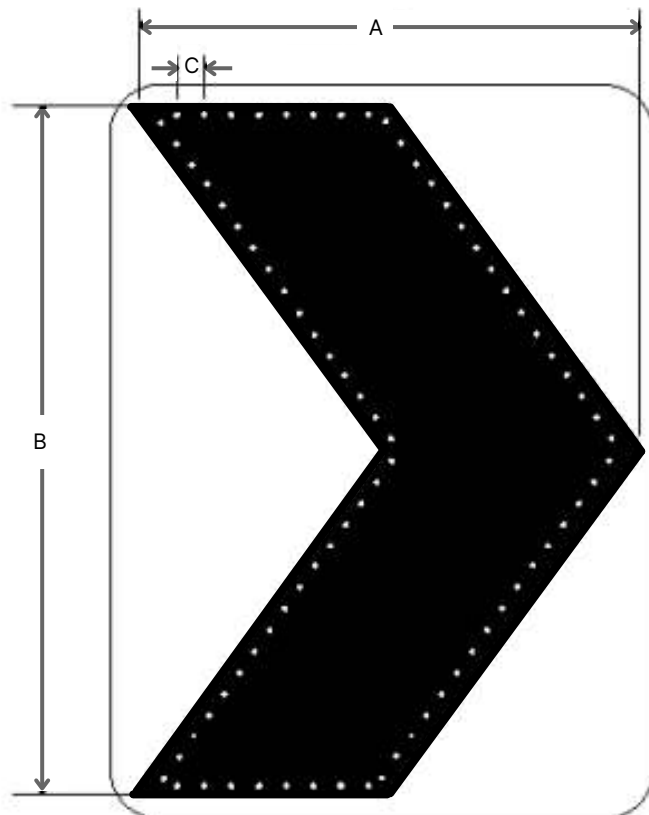
Mounting: All LED hardware is mounted around the perimeter of the symbol on an LED baseplate that can be bolted to the sign post with the same bolt used for attaching the static sign to the post

MUTCD compliant LED placement and usage

10 ft (3m) single cable extension to reach Controller or Collaborator

This item can ship as a kit that can be mounted to a new or existing sign OR a complete system with sign

MUTCD Sign Size	Part Number	Ring Length (A)	Ring Height (B)	Ring Width (C)	LED Offset	LED Count	Light Output (cd)	Power (Amps)
18" x 24"	M75-R1824-BA1L/R	18"/46 cm	24"/61 cm	.625"/1.6 cm	.85"/2.2 cm	80	2995200	.922
24" x 30"	M75-R2430-BA1L/R	24"/61 cm	30"/76 cm	.625"/1.6 cm	.85"/2.2 cm	112	4193280	1.290
30" x 36"	M75-R3036-BA1L/R	30"/76 cm	36"/91 cm	.625"/1.6 cm	.85"/2.2 cm	128	4792320	1.475
36" x 48"	M75-R3648-BA1L/R	36"/91cm	48"/122 cm	.625"/1.6 cm	.85"/2.2 cm	160	5990400	1.843



TrafficCalm LED ring plate easily bolts to existing Chevron signs

# Wrong Way Back Lit Sign

FLASHING SIGN SYSTEM



## INTERNALLY ILLUMINATED WRONG WAY SIGN and FLASHING LED RING

TraffiCalm's Wrong Way Back Lit Sign combines internal illumination and retro reflectivity on the Wrong Way sign with Flashing LEDs around the perimeter of the sign, creating the most effective warning device for wrong way drivers.

This sign is an integral component of TrafficCalm's Wrong Way Warning + Notification Systems. Studies show our systems stop or turn around 89% or greater of wrong way drivers before they enter the mainline freeway.

## FEATURES

### Highly Visible LED Warning Signs

TraffiCalm fully outlines the shape of the sign with the most LEDs on the market for a bright, visible sign in any environmental condition.

### Ruggedized Electronics

The internally illuminated Sign has a 150-mph wind load rating. The LED sign ring has epoxy-potted, environmentally sealed electronics

### 100% MUTCD Compliant

TraffiCalm® Systems internally illuminated signs and LED flashing rings are fully MUTCD compliant.

### Made in the USA

TraffiCalm® Flashing Sign Systems are manufactured in the USA in an ISO 9001:2015 certified facility, meeting and exceeding industry and state testing requirements. TrafficCalm® signs are unmatched in durability, brightness, accuracy, and ease of installation and use. Build America/Buy America Compliant.

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## SPECIFICATIONS

### ■ Illumination - Flashing LED Ring

LEDs configured around perimeter of sign within the border (fully MUTCD compliant design)

LED Pitch: 1.9" (4.83 cm) on centers; within the cluster

Red LEDs with 30° Viewing Angle

Black powder-coat to blend with sign frame

### ■ Illumination - Internal Sign

3M Electrocut Red film transparent sheeting with Diamond Grade Type IX reflective sheeting

1400 mA, 100-240VAC, IP67 Rated UL 1310

Class 2 Power Supply

60,000 hour LED lifespan

580 Lux Brightness

LED rated lifetime of 100,000 hours

### ■ Compatibility

Integrates with all TrafficCalm® Wrong Way Warning and Warning + Notification detection systems

### ■ Construction

6000 series aluminum housing

All Wiring is UL 2464 rated

### ■ Environmental

150mph with 1.14 gust factor and ice loading per AASHTO LTS-4 2001

-40° F to + 140° F operating range

(-40° C to +60° C)

## DETAILS

### ■ Physical Descriptions

Available Sizes: 48" x 36" (121.9 cm x 91.4 cm) sign face

Mounting Options: Pelco SE-5015 or SE-5146, Pelco Astro-brac AS-3009

MUTCD compliant LED placement and usage

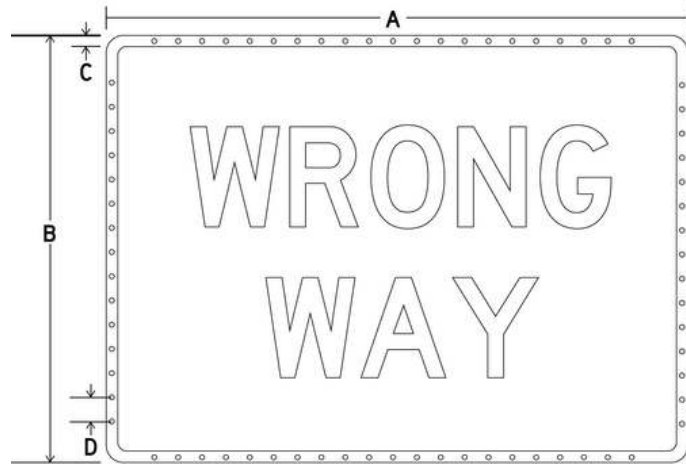
10 ft (3 m) single cable extension to reach Controller or Collaborator

Heavy guage aluminum frame surrounds sign, exposed sign face measures 48" x 36" (121.9 cm x 91.4 cm)

### ■ Warranty and Service

5 year limited warranty

Unlimited tech support from US based factory technicians



MUTCD Sign Size	Part Number	Sign Width (A)	Sign Height (B)	Sign Thickness (C)	LED Offset (D)	LED Count	LED Ring Light Output (Candela)	LED Ring Power (Amps)
48" x 36" (121.9 cm x 91.4 cm)	M75-48360-BL00	55.5" (140.97 cm)	40" (101.6 cm)	1.6" (4.06 cm)	1.9" (4.83 cm)	72	486000	.576

# Do Not Enter Flashing LED Ring

## FLASHING SIGN SYSTEM



### DO NOT ENTER FLASHING LED RING

Designed to LED enhance any existing or new R5-1 DO NOT ENTER sign. Engineered to provide ease of installation, unmistakable visibility under any conditions, and intuitive driver calming beyond that of just reflective sheeting.

TraffiCalm is unmatched in our dedication to advancing road safety. Our Flashing Sign Systems provide clear, and proven, modernized traffic signs which remain fully compliant with the Federal Highway Administration (FHWA) Manual on Uniform Traffic Control Devices (MUTCD).

TraffiCalm® Flashing Sign Systems offer scheduled, radar activated or 24/7 operation and AC or solar power, hassle-free installation, retrofit design and wireless communication features.

## FEATURES

### Highly Visible LED Warning Signs

TraffiCalm fully outlines the shape of the sign, with the most LEDs on the market, for a bright, visible sign in any environmental condition.

### Retrofittable LED Rings

Utilize existing signage and add our LED sign rings for a more cost-effective solution

### Ruggedized Electronics

All electronics, radios, and LEDs are fully potted and environmentally sealed. The entire pole with the sign, controller, solar panels and batteries can be fully submerged and still operate.

### Ease of Installation

The ease of installation allows for quick setup on any existing sign post.

### 100% MUTCD Compliant

The MUTCD allows LEDs to enhance standard highway warning and regulatory signs and to outline either the sign itself or the words and symbols on the sign. MUTCD specifications indicate that; "If used, the LEDs shall be the same color as the sign legend, border, or background. If flashed, all LED units on an installation shall flash simultaneously at a rate of more than 50 and less than 60 times per minute." TraffiCalm® Systems are fully compliant.

### Made in the USA

TraffiCalm® Flashing Sign Systems are manufactured in the USA in an ISO 9001:2015 certified facility, meeting and exceeding industry and state testing requirements. TraffiCalm® signs are unmatched in durability, brightness, accuracy, and ease of installation and use. Build America/Buy America Compliant.

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## SPECIFICATIONS

### ILLUMINATION

LEDs configured around perimeter of sign, within border (fully MUTCD compliant design)

LED Pitch: 1.9 (4.8cm) on centers

LED Viewing Angle: Red (626 nm) LEDs 15°

LED Viewing Angle: White LEDs 30°

Red LEDs with AllnGaP Chemistry

White LEDs with InGaN Chemistry

DG3 white reflective sheeting applied to ring face for uniformity with R5-1 DO NOT ENTER Sign

LED rated lifetime of 100,000 hours

### COMPATIBILITY

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

### CONSTRUCTION

14 gauge 5052 aluminum construction

Individually lensed LEDs recessed behind faceplate

Ring Depth: 0.4" (10.2 mm) to minimize impact on natural sign appearance

No mounting or wiring exposed on reverse of sign

All Wiring is UL 2464 rated

### ENVIRONMENTAL

NEMA 4X Enclosure

Potted electronics (hermetically sealed)

-40° F to +140° F operating range

(-40° C to +60° C)

## DETAILS

### PHYSICAL DESCRIPTION

Available Sizes: 36"(91.4 cm) and 48"(121.9 cm)

Retrofits to any 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

10 ft (3 m) single cable extension to reach Controller or Collaborator

Ring can be factory installed to a new static sign

Available LED Colors: White (InGaN technology, supports EN12966-1 white color class C2) or Red (AllnGaP technology, 626nm wavelength)

This item can ship as a kit that can be mounted to a new or existing sign OR a complete system with sign

### WARRANTY and SERVICE

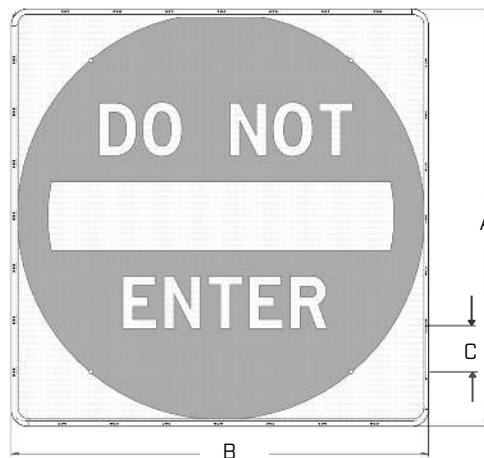
5 year limited warranty

Unlimited tech support from US based factory technicians

#### White LED Signs with Clusters of 3 LEDs

M75-R3636-WW06

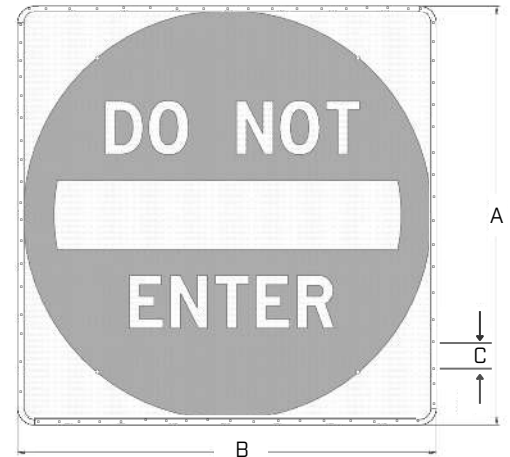
M75-R4848-WW36



#### Red LED Signs with Single LEDs

M75-R3636-WR06

M75-R4848-WR06



Part Number	MUTCD Sign Size	LED Color	Ring Length	Ring Height (A)	Ring Width (B)	LED Offset (C)	LED Count	Light Output	Power (Amps)
M75-R3636-WR06	36" x 36"	red	36"/91cm	36"/91cm	.625"/1.6cm	1.9"/4.8cm	72	489600	.432
M75-R4848-WR06	48" x 48"	red	48"/106cm	48"/106cm	.625"/1.6cm	1.9"/4.8cm	112	761600	.672
M75-R3636-WW06	36" x 36"	white	36"/91cm	36"/91cm	.625"/1.6cm	1.9"/4.8cm	72	910800	.432
M75-R4848-WW36	48" x 48"	white	48"/106cm	48"/106cm	.625"/1.6cm	5.3"/13.5cm	112	1416800	.672

# 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