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TS40 Wrong Way Warning Flashing LED Edge Lit Signs MUTCD Compliant

General Description

Wrong-way, head-on crashes have much higher injury and death rates than other types of accidents. A majority of these collisions occur at night and are caused by impaired, distracted or confused drivers who enter highways going the wrong direction. Our TS40 series WRONG WAY (R5-1A) and DO NOT ENTER (R5-1) signs employ a set of synchronized high-intensity flashing LEDs that command the attention of errant drivers at exit ramps and other roadways with one-way traffic. The sign LEDs flash once per second, continuously 24/7. Optional activation options include a programmable timer and a photocell for dusk-to-dawn operation.

Applications

- Highway exits
- Divided roadways
- One-way streets
- Parking garage exits

Why Our Signs are Better

High Visibility

- Type IX reflective sheeting provides outstanding reflective brightness, day or night.
- High intensity LEDs extend the visibility of the sign under all weather conditions.

Superior Performance

- Low power LED technology reduces system power consumption and operating cost.

Outstanding Durability

- Highway grade .080 aluminum construction provides resistance to corrosion.
- The use of highway grade Type IX sheeting helps to maintain long term reflectivity.
- Stainless steel security fasteners and Tufnut mounting hardware included to keep the sign secure.
- Signs are weatherproof to prevent outside elements from entering the internal casing.

Features

- MUTCD section 2A.07 and 2A.08 compliant.
- High visibility, low power consumption.
- Fast, easy installation, low maintenance.
- Field adjustable LED flashing duration (30 seconds standard).
- Vandal-resistant mounting hardware included.
- Optional battery backup, not affected by local grid power outages, 12 day autonomy (flashing 24/7).



**SIGN LED FLASHING DURATION IS
NOW ADJUSTABLE IN THE FIELD**

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Solar TS40

A solar powered TS40 is available that features off-grid power generation and independent flashing control.

Features

- Solar powered with battery backup, no AC power required.
- MUTCD section 2A.07 and 2A.08 compliant.
- Installs easily onto any new or existing sign post.
- High intensity LEDs flash in unison, once per second, commanding the attention of drivers day and night.
- Optional LED dimming at night to reduce glare for motorists.



TS40 Specifications*

Compliance

- MUTCD section 2A.07 and 2A.08 compliant

Construction

- .080 highway grade aluminum and stainless fasteners
- Tufnut security mounting hardware (pole not included)

LED Lighting

- Red sign background: Red LEDs standard, White LEDs optional
- LED 1-1/4" bullet style in sign perimeter border
- Flash rate 50 to 60 times per minute
- Field adjustable LED flashing duration (30 seconds standard)
- LED life expectancy over 100,000 hours
- Visible up to 2 miles away
- Field replaceable grommet mounted lights
- Sealed DOT approved lighting

Circuitry Technology

- Sealed PCB technology
- 24 hour operation / dusk to dawn operation

Solar / AC / Battery Specifications**

- 15W solar cell
- AC - 120V, 240V, 277V; 120V battery maintainer
- DC - 6 volt 18AH SLA battery pack (3 to 5 year battery life)
- Up to 12 days in 24/7 operation


Options

- Battery backup for AC signs
- Additional LED lights
- Standard 7 day or deluxe 365 day programmable timers
- Wireless activation
- Keyed on/off switch
- LED dimming at night to reduce glare for motorists (solar only)
- Anti-graffiti protective overlay

Warranty

- 10 Year Solar Panel
- 5 Year Sign Construction
- 2 Year LED Lights & Circuitry
- 1 Year Battery

Reflective Sheeting

 Type IX (Yellow, Red, White)
 (Standard for non-school zone areas)

* All specifications subject to change without notice.

** Special configuration (wireless, etc.) signs will have 12 volt 22AH SLA battery with 20W solar cell (22.75" x 16.75" x 1.125", 4.5" depth with bracket).

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Ordering Codes

Product Code	Sign Type and Size ⁵	Power ²	Activation Options (select only one)	Reflective Sheeting
SI-TS40 ^{1,4}	R5-1-24: 24" x 24" Do Not Enter R5-1-30: 30" x 30" Do Not Enter R5-1-36: 36" x 36" Do Not Enter R5-1A-24x36: 24" x 36" Wrong Way	AC: AC B: Battery ³ S: Solar SD: Solar Dimming ⁶	1: Wireless Communication Sign for Wired Activation 2: Standard Programmable 7 Day Timer 3: Photocell 5: Single Sign for Wired Activation 6: Deluxe Programmable 365 Day Timer 7: Single Sign for Wireless Activation 9: Wireless Communication Sign for Wireless Activation	B: Type IX 1: Anti-graffiti Protective Overlay

1. SI-TS40 is used in standalone applications, without a system controller.
2. 24/7 operation standard.
3. Includes spare battery and charger.
4. When ordering, specify size & shape (square, round) of your sign pole. Pole not included, sold separately. Single sided signs standard.
5. Signs have 4 to 8 LEDs depending on sign size and configuration.
6. Sign LEDs are dimmed at night to reduce glare for motorists. If solar panel voltage is 66% or less of the battery voltage, then the sign LEDs will go into auto-dimming mode. Only works on 24/7 signs.

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How to Specify the TS40

1. Sign Materials - Construction - Compliance

- a. Sign reflective sheeting in compliance with current MUTCD requirements for reflectivity, wording, materials and mounting guidelines.
- b. Pole mounting requirements per MUTCD guidelines.
- c. Sign constructed of .080 aluminum with stainless / aluminum fasteners and weatherproof sealant.
- d. All mounting hardware fasteners shall be theft deterrent hardware preferably Tufnut security hardware where applicable.
- e. 3/8" x 3" stainless steel tap bolts for standard mounting hardware (other mounting options available).
- f. Battery access compartment located at lower portion of sign to allow access to battery compartment for maintenance (field replaceable battery).
- g. Solar signs to have a 2" to 4" wide casing, depending on model, between front and rear sign faces to enclose all wiring, battery, PCB and LED light connections. AC powered signs 2" wide casing.
- h. Security keyed ON/OFF switch located on side of casing controlling operation.
- i. Vented weatherproof casing allowing ambient air to circulate for internal components and prevent condensation and excessive heat buildup.
- j. Compression type solar panel connector allowing optimum directional placement of solar collector.
- k. Anti-theft placards and decals for theft / vandalism deterrents.
- l. Serial # plate with manufacture date for informational and warranty purposes.

2. Battery

	12 Volt 12 Volt 22000mAH SLA	6 Volt 2 - 6 Volt 9000mAh SLA (18 Ah Total)
Dimensions	7.14" x 3.03" x 6.59"	5.95" x 1.34" x 3.70"
Weight	12.74 lb.	3.09 lb.
Terminal Connector	Nut/Bolt	T2 - Spade
Operating Temperature	-40°F to +156°F	-40°F to +156°F
Warranty	1 Year	1 Year

- a. Battery mounting with aluminum fasteners and brackets for in-field replacement after life cycle has expired.
- b. Battery casing fully sealed in a moisture and corrosion proof casing.
- c. Required battery replacement every 18 months from manufacture date.

3. Solar Panel Collector

- a. Solar panels to be 6/12 volt 15/20/30 watt collector type depending on type of sign, region, LED light quantities and application uses.

	15 Watt	20 Watt	30 Watt
Max Power	15W	20W	30W
Operating Voltage	8.0V	17.2V	17.4V
Operating Current	1.88A	1.16A	1.73A
Max Voltage	10.8V	21.6V	21.6V
Operating Temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Dimensions	16.75" x 14.00" x 1.125"	22.75" x 16.75" x 1.125"	26.5" x 16.75" x 1.125"
Type	Polycrystalline	Polycrystalline	Polycrystalline

- b. Solar panel bracket constructed of aluminum alloy.
- c. Schedule 40 3/4" aluminum tubing attached to the solar panel bracket to the upper casing of the sign casing. Panel must face south.
- d. Angle of panel shall be 45° to 65° depending on region. Special attention required to insure solar collector has good access to solar power with no obstructions for optimum operation.
- e. Electrical connectors shall be insulated spade type connectors.
- f. Tempered glass solar cell sealer/protector.

4. LED Lights (Light Emitting Diodes)

- a. Sign shall have a series of either 4 - 8 LEDs depending on sign size and configuration.
- b. All LEDs shall be compliant to MUTCD Section 2A.07 and match colors acceptable to each type of signal per this specification.
- c. LED flash rate at 50 to 60 times per minute per MUTCD Section 2A.07 requirements.
- d. LED light dimensions: 1/8" Cree LED inside a 1-1/4" diameter lens.
- e. 100,000 hour rated LED life (11.415 years).
- f. High impact acrylic water/vibration proof housing lens.
- g. Completely resin sealed lens.
- h. Operating voltage: 6/12 VDC / Amp Draw 85ma.
- i. Rubber grommet mounted (for easy in-field replacement) into a 1-1/4" hole.
- j. Output power of LEDs approximate 60,000 mcd brightness.
- k. LEDs wired in series for simultaneous flash pattern per MUTCD.
- l. Wiring completely enclosed in sign casing with access for replacement.

5. Circuitry / LED Lighting Control Unit

- a. Circuit shall have a minimum of 4 output LED light circuits for use.
- b. Circuit shall control flash rates at 50 to 60 times per minute.
- c. Circuit shall flash 500 milliseconds / 150 milliseconds per flash.
- d. Activation duration shall be field adjustable in one-second increments, over a range of 1 to 99 seconds (30 seconds standard).
- e. Available dusk-to-dawn flash mode.
- f. Micro-controller technology.
- g. Keyed "ON/OFF" activation for tamper/vandalism protection.
- h. Operation of circuit temperatures -40°C to +80°C.
- i. Circuit enclosed in weatherproof casing.
- j. Low voltage protection program (protecting from total discharge of battery).
- k. All wiring connections in accordance to standard wiring protection guidelines.

6. Warranty

- 10 Year Solar Panel
- 5 Year Sign Construction
- 2 Year LED Lights & Circuitry
- 1 Year Battery

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