HARDING TRAFFIC

HTL VARIABLE SPEED SCHOOL ZONE SIGN

Model: MV SZSVS

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About Us

At Harding Traffic, we are more than just a company; we are pioneers in traffic control solutions with a rich history dating back to 1966 when Harding Signals was incorporated. This marked our venture into electronic traffic signals.

In 1997, our area of operations moved away from Traffic Signals and into Electronic Signage and Traffic Management Systems. To reflect this, we changed our name to Harding Electronic Signals Ltd. Harding Traffic's integration into the Traffitech Group in 2007 marked a new era of growth, joining a group of companies boasting a robust financial standing with $45 million in revenue, assets exceeding $20 million, and a dedicated team of 180 staff and 6 locations across New Zealand.

Our journey has been marked by a steadfast dedication to innovation and quality, leading the charge in traffic control technology. With 1000's of the country's traffic signs installed by Harding Traffic over 27years, our impact is undeniable. Yet our ambition extends beyond electronic traffic signs; we've become a comprehensive provider of traffic management/warning systems, car park solutions, integrated traffic management solutions, data capture and analytics along with so much more. We are committed to enhancing urban infrastructure with our cutting-edge solutions.

Today, Harding Traffic stands as a testament to over 50 years of expertise in the traffic industry. Our capabilities extend across the design, manufacture, and installation of high quality, specialised traffic systems. This includes everything from Motorway signs and School Zone signs to Rural Interchange Advance Warning Signs, Illuminated Road Stud technologies, car park systems, electronic waning systems and off-street signage. We take pride in serving a diverse clientele that includes NZTA, local Councils and authorities, commercial entities and contractors.

Quality Guaranteed

Harding Traffic holds AS/NZS 4801 Health and Safety Management certification, ISO 9001 manufacturing quality certification and ISO 14001 Environmental Management System certification. These certifications represent Harding's commitment to providing a consistently high level of service, delivery quality products based on sound management and process controls.

Standard Features

Variable Speed School Zone Sign

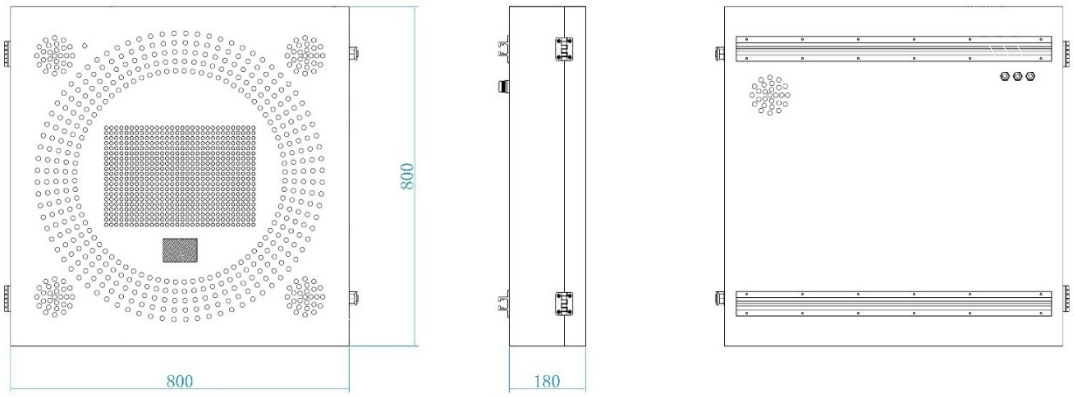
Our Variable Speed School Zone sign is designed to create a safer environment around schools by temporarily reducing speed limits during high-risk periods, such as school start and end times, as well as special school events. The sign features flashing wig-wags and LED components that activate at programmed times, enhancing driver awareness precisely when needed.

Equipped with an advanced in-built photoelectric sensor, the sign automatically adjusts LED brightness based on ambient light conditions, ensuring maximum visibility in bright sunlight and reducing luminosity as lighting changes. A manual setting allows for post-installation adjustments to suit local conditions if required. Powered by solar energy and wirelessly activated, these self-sufficient signs eliminate the need for costly power and communication line installations.

Additionally, all signs provided by Harding Traffic comply with the EN12966 standard, the preferred industry standard in New Zealand. This ensures a defined “viewing window” with light output significantly reduced beyond 15 degrees from the sign’s centreline, above it, and more than 10 degrees below, preventing unnecessary light overspill and maintaining optimal visibility.

FEATURES

• **NZTA Compliant**	Designed to meet NZTA Traffic Notes 37 & 56
• **LED Technology**	Low power consumption and low maintenance requirements
• **Timer based activation**	Signs automatically activate at the start and end of school days only or on manual request
• **Solar panel charging system**	Can be installed in areas where no local power supply is available
• **Wireless controller**	Control of the sign is done by wireless communication
• **Optional power sources**	School Zone signs can be powered from mains or street-light power if available

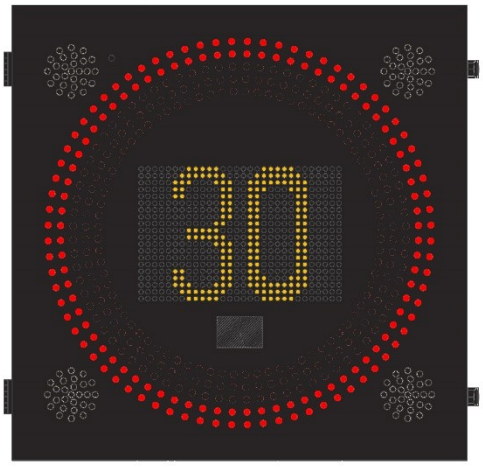


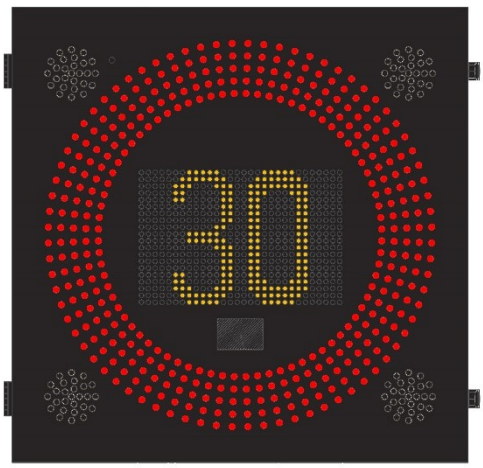
FRONT VIEW SIDE VIEW REAR VIEW

Sign Specifications

- **HTL Code:** MV SZSVS
- **Dimensions:** 800mm wide x 800mm high x 165mm deep
- **Colours Standard:** Powder coated black front with aircraft grey on side and rear
- **Supplementary Sign:** PW-32 KURA SCHOOL 600mmW X 400mmH
- **Power / Voltage:** 12v DC with 230V AC mains power option
- **Weight:** Approx. 23 Kg w/o batteries (45Kg w/ batteries)
- **Mounting:** Pole Mounted
- **TCD Rule:** R1-6
- **Viewing Angle:** 30° horizontal, 10° vertical (down from horizontal plane)
- **Enclosure Rating:** IP56
- **Cabinet Material:** Aluminium
- **Sign Design Life:** 10 Years
- **Warranty Period:** 12 Months
- **Corner Wig-Wag Lights:** Yes - 4 x Amber 90mm diameter.
- **Wig-Wag Flash Rate:** 1Hz
- **Sign Activation Indicator:** 90mm diameter amber indicator light on rear of sign cabinet.
- **Operational Display:** The speed can be displayed in either Amber or White.
  The roundel can be configured to be static or to have the inner three lines of the roundel flash. The Wig Wags can also be set up to flash either diagonally or horizontally, depending on your preference.
- **Light Sensor:** **P**hotoelectric sensor that automatically controls the luminosity of the sign LEDs

Display Sequins during School Time





Supplementary Sign

Additional Options

LOCAL ELECTRONIC SIGN CONTROLLER

- Take control of your traffic signs with the cutting-edge Local Sign Controller, designed to make managing school signage easier than ever. Whether you're automating sign schedules or manually adjusting them for holidays and special events, this controller offers the flexibility and reliability you need. Adjustments can be made conveniently on your phone, tablet, or PC.

- **HTL Code:** MV ESCONTRL
- **Housing Dimensions:** 218mm wide x 163mm high x 60m deep
- **Weight:** 1kg
- **Operation Modes:** 5-day weekly scheduler with 10-minute override
- **Effective operating range:** 2000 meters (line of sight)
- **Operating Voltage:** 230V AC Plug-in Power Supply

SMART SIGN

Harding Sign Monitor “Smart Sign” is an innovative traffic management software accessible via the Internet. This innovative solution empowers users to effortlessly oversee and control numerous devices within the software providing real-time status updates and enabling the transmission of content to the equipment.

- **HTL Code:** MV HSMK
- Remote Monitoring
- Online Schedule Updates
- Automated Daylight savings time changes
- Optional Radar module in combination with our radar option will allow you to monitor speeds[1]

1. Requires MV HSML and has a Quarterly ongoing charge.

SOLAR POWERED BATTERY/SOLAR KITS

Harding Traffic's solar systems are tailored to each specific sign type. Our solar systems are designed to power a sign for a minimum of two days without sunlight and to recharge the batteries within one normal day of sunlight. They utilize industry-standard solar power components, which are housed internally and is secured using the sign's locking mechanism. The solar panel itself is affixed to the top of the pole on which the sign is mounted.

- **HTL Code:** MV IBSKS60, MV IBSKS100 or MV IBSKS200
- **Solar Capacity (Nominal):** 60w, 100w or 200w
- **Junction Box:** IP67
- **PV Cells:** Mono-crystalline silicon cell per panel
- **Dimensions:** Varied depending on option
- **Front Glass:** 3.2mm, low iron, tempered glass
- **Operating temperature** -40°C to ~ 85°C
- **Battery Voltage:** 12V
- **Storage Capacity (Battery)** From 20ah, depending on setup.
- **Battery Type** VRLA

Low sunlight areas (less than 8 nominal hours of sunlight per day) signs will be required to upgrade their solar requirements.

MAIN'S POWERED KITS

Harding Traffic's Mains Power Ready kit is integrated directly into the sign, including all necessary components to establish a safe and controlled mains power supply for our wide range of active signs.

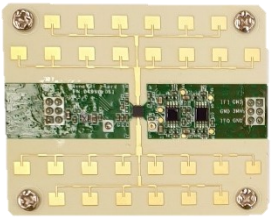
- **HTL Code:** MV MAINSP2
- **Output DC Voltage:** 12V
- **Input Voltage Range:** 88 ~ 264 VAC / 124 ~ 370VDC
- **Working Temp:** -30°C to +70°C
- **Protections:** Short circuit / Overload / Over voltage / Over temper

SPEED RADAR

Harding Traffic have thoroughly investigated the global Radar market, seeking the most reliable and cost-effective solutions to incorporate into our Electronic Warning Signs. We now have a range of options to suit all roading / traffic scenarios, catering for urban, rural and motorway speed considerations.
In a MV SZSVS School Zone Sign. The radar monitors the traffic speed and will cause the inner part of the Rondel to flash if a vehicle exceeds the specified speed threshold[1]. The data can also be monitored and reported[2].

Short Range

- **HTL Code:** MV INRAD100
- **Radar Range:** 100m typical detection range
- **Direction options:** Bidirectional
- **Radar Frequency:** 24.125GHz centre +/- 25Mhz
- **Accuracy:** (±1) km/h
- **Operating temperature:** -30℃ ~ 70℃ Celsius
- **Speed Detection Range:** 5kph to 350kph
- **Interface:** RS232 / RS485



Long Range

- **HTL Code:** MV INRAD600
- **Radar Range:** 360m typical detection range[3]
- **Direction options:** Bidirectional
- **Radar Frequency:** 24.125GHz centre +/- 25Mhz
- **Accuracy:** +/- 0.5%
- **Operating temperature:** -40 to 85 degree Celsius
- **Speed Detection Range:** 1kph to 331kph
- **Interface:** Primary and Auxiliary RS232

1. Requires MV INRAD600
2. Requires MV HSMK and MV HSML
3. Factory programmable and location dependant

STATIC SUPPLEMENTARY SIGNS

Supplementary School Zone signs can be purchased with the electronic signs

- **HTL Code:** MO RG0161X142U
- **Size:** 900W x 1350H mm
- **TCD Code:** RS6
- **TSC Rule:** R1-6.1
- **Substrate:** Aluminium w/ Signfix
- **Type:** Urban Roads

- **HTL Code:** MO RG0161X142R
- **Size:** 1200W x 1600H mm
- **TCD Code:** RS6
- **TSC Rule:** R1-6.1
- **Substrate:** Aluminium w/ Signfix
- **Type:** Rural Roads