



SBC9/109 - Steady Burn LED Chevron Sign Series

Combining the strengths of reflective and LED technology to enhance chevron visibility at hazardous curves in all types of light and weather conditions

Proven Curve Safety Enhancement

The SBC steady burn chevron sign series was developed at the request of British Columbia Ministry of Transport to be deployed at curve locations in the province with a known history of high accident/fatality rates.

The first pilot installation was installed in the Cariboo district at Walkers Curve in the fall of 2010 and the 1st year anniversary results of Zero incidents provided an excellent endorsement for the safety enhancement.

SBC chevrons have since established themselves as an important tool in the challenge of lowering fatalities at curves.

A full range of SBC chevrons models are available in 45 x 60 cm to 60 x 75cm sizes ensuring the sign is appropriate for the road speed.

Features

- Independently proven to be long term effective
- Chevrons offer uniform visibility throughout the entire curve
- Enhanced visibility in all weather and light conditions
- Affords better driver recognition of the curve in poor weather conditions and at night when potential for accidents is increased.
- Design significantly reduces requirement for cleaning - snow doesn't stick to sign as it does on static sign plate



The SBC chevron combination of high intensity LED reflective sign sheeting provides enhanced display visibility in all types of light and weather conditions.

It also significantly reduces the cost of maintenance for cleaning in comparison to a standard reflective sign.



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Technical Specifications and Operation

Model & Part code References	SBC9: 110V Part code: CVWa-9-S--AAP 24VDC Part code: CVWa-9-S--BAP SBC109: 110V Part code: CVWa-109-S--ABP 24VDC Part code: CVWa-109-S--BBP
Display Technology	ITE color tested high intensity amber LED display technology combined with fluorescent sign face, clearly visible in all daylight conditions. Auto Luminosity control to suit ambient light conditions.
Display Format	Black chevron on fluorescent yellow reflective background. Two rows of 5mm diameter high intensity amber LEDs on a 17mm pitch are fitted protruding through reflective material face along the border of the chevron. Reflective background available in (HIP) High Intensity Prismatic or (DG) Diamond Grade.
Model Dimensions (Approx)	SBC9: (Wa-9 45 x 60cm diagram size) External dims 730mm High x 570mm wide x 135mm deep SBC109: (Wa-109 60 x 75cm diagram size) External dims 912mm High x 770mm wide x 135mm deep
Model Weights	SBC9 15Kg SBC109 23.5Kg
Power Supply	Units are available in 110VAc and 24V DC models Nominal current: Day time 700mA Night time 200mA per individual chevron sign.
Sign Configuration	The units will operate in steady burn mode when power is applied. Each unit will have an internal LED indication of the intensity of the Chevron display LED's. The display LED's will vary between day time (maximum) intensity and night time (minimum) intensity with three intermediate stages. The time to switch from day time to night time intensity (or vice versa) is approximately one minute. The chevrons are fitted with a pair of IP65 data in/out port sockets on the rear of each unit and associated naked mating plugs to allow installer to install a link cable between chevrons during installation to ensure intensity levels on each chevron are matched.
Case	Purpose fabricated lightweight aluminium vandal resistant NEMA Type 3S ingress rated enclosure Matt Black front face Aircraft Grey rear powder coat finish or color to suit, 60 micron min thickness. ¼" (5mm) anti reflective Polycarbonate window.
Operating Temp Range	-34 to 74°C, 95% non condensing
Mechanical Interface	Sign will be supplied equipped with sign fix U channel supports on rear and SX0220 channel banding interface brackets to allow ¾" band mounting to a variety of posts. The chevron is to be designed so that it can be mounted in a right hand or left hand orientation. In both of these arrangements the unit is to be supplied with a drain hole plug, the drain hole plug must be fitted to the top of the case.
Electrical Interface	Plugs are supplied to facilitate plug and play connection to power supply. Dust Caps are supplied to protect any unused sockets. Internal power connections are screw terminal.

Operation

The SBC chevrons will operate in steady burn mode when power is applied.

Each unit will have an internal LED indication of the intensity of the Chevron display LED's. The display LED's will vary between a day time (maximum) intensity and a night time (minimum) intensity with three intermediate stages. Each intensity step is to be imperceptible to the human eye.

The Chevron will power up at the minimum intensity setting, ramping up to the maximum intensity in day time in approximately one minute.

When all data links are connected between chevrons, the status codes will be identical on all units. i.e. All Chevrons will display at the same intensity level.

All Chevron signs are identical in operation, there is no 'master'.

The chevrons are to be fitted with a pair of IP65 data in/out port sockets on the rear of each unit and associated naked mating plugs to allow installer to install a link cable between all chevrons during installation to ensure intensity levels on each chevron are matched. See installation guide for optimal set up.

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