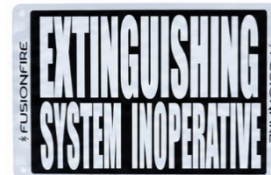


Fusion Warning Signs

SH-Sign-R / SH-Sign-Y



Overview

The Fusion Warning Sign is a weatherproof, high-intensity LED warning device for fire and special hazard applications.

It offers interchangeable fascia plates, configurable steady or flashing illumination, and optional audible warning to provide clear and reliable hazard notification.

Certification & Approvals

Complies with AS 1603.11:2018

Test Report: ACTE202503055

Specifications

Part Number

SH-Sign-R	Weatherproof Illuminated Sign - Red LEDS (without Sounders, no Faceplate)
SH-Sign-Y	Weatherproof Illuminated Sign - Yellow LEDS (without Sounders, no Faceplate)

Electrical

Nominal Input Voltage	12–24 V DC
Input Current (without buzzer)	110 mA @ 24 V DC
Buzzer Terminal Output	10 mA @ 12–24 V DC per output

Optical performance

LED Configuration	8 × Red LEDS or 8 × Yellow LEDS
Luminous Intensity	330 cd/m ²
Flash Rate	0.67 Hz (ON 0.8 s / OFF 0.7 s)
Viewing Distance	10 m (53 mm character height)
Viewing Angle	Up to 120°
Character Colour	Clear text on black background
Character Height	≥35mm

Environmental

Operating Temperature	–25 °C to +70 °C
Humidity	Up to 96% RH (non-condensing)
IP Rating	IP53C*

* To maintain IP integrity, suitable IP-rated cable glands must be used for all cable entries.

Mechanical

Enclosure Material	Polycarbonate
Fascia Material	Polycarbonate with screen-printed text
Mounting Method	4 × flange mounting holes (7 mm Ø)
Dimensions (L × W × D)	241mm (Flanges) 200(L)x123(H)x76(Deep)mm
Weight	0.45 kg

Installation



- Refer to applicable Australian and International Standards along with local regulations if system is to be installed in specific high-risk environments. Always refer to manufactures instructions regarding installing system in specific high-risk environment.
- This device must be wired according to the connection details described in this manual. Always test the device after installation.

Installation | Wiring

The sign is fitted with two sets of parallel input terminals. A single sign or multiple signs may be connected as shown in the wiring diagrams below. Either set of terminals may be connected to a supervised alarm output of the fire alarm control panel, ensuring the correct polarity is observed.

Where the control panel output is supervised, the required end-of-line (EOL) component must be fitted at the other input terminal.

The required EOL resistor value is dependent on the control panel model. Alternatively, where supported by the control panel, a supervision diode may be used.

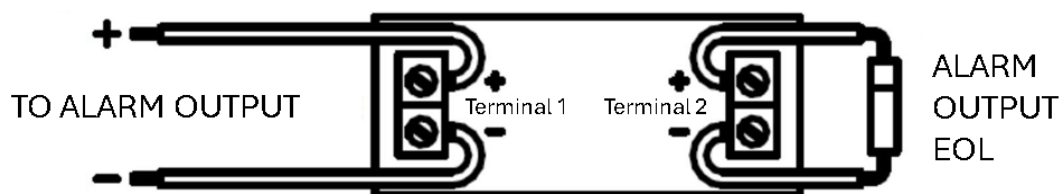
Refer to the fire alarm control panel manufacturer's documentation for the correct supervision component and polarity requirements.

All field wiring shall comply with the applicable fire alarm installation standards and use cable with a conductor cross-sectional area of 0.5 mm² to 1.5 mm².

Single Sign

Option	Terminal 1	Terminal 2
1	Alarm Output	EOL
2	EOL	Alarm Output

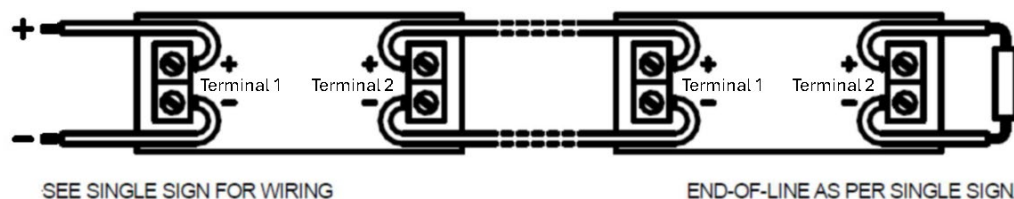
Single Sign Diagram



Multiple Signs

Sign1 - Terminal 1	Sign 1 - Terminal 2	Sign 2 - Terminal 1	Sign 2 - Terminal 2
Alarm Output	Sign 2 Terminal 1	Sign 1 Terminal 2	EOL

Multiple Sign Diagram



Installation | Mounting

The sign is designed for horizontal mounting and is secured using four mounting screws through the dedicated mounting cups (Ø10 mm) located at each corner of the rear enclosure. The type, size, length, and quantity of the mounting screws shall be selected to suit the mounting surface and ensure the sign is securely installed.

The wiring and the settings of the DIP switches should be completed before mounting the sign.

Factory default DIP switch settings

Switch	Default Setting
SW1	OFF
SW2	OFF

The recommended installation procedure as follows:

1. Configure the DIP switches as required for the application.
2. Install suitable cable glands into the preferred cable entry holes and route the field wiring through the glands.
NOTE: To maintain IP integrity, suitable IP-rated cable glands must be used for all cable entries.
3. Connect the field wiring to the terminal blocks and verify that the correct EOL is fitted, where required by the fire alarm control panel.
4. Securely mount the sign to the installation surface using four suitable mounting screws.
5. Insert the rubber sealing strip against the back of the faceplate.
6. Close up the faceplate and tighten the four retaining screws evenly at the front to maintain the enclosure seal.
7. Verify the operation of the sign after installation.

WARNING: Do not test the sign with the faceplate removed. The high-intensity LEDs may cause eye injury if viewed directly.

Operation

The sign operates from a DC supply voltage of 8V to 30V. When the correct polarity alarm voltage is applied to the input terminals, the sign activates its visual indication and audible indication, where applicable.

For supervised fire alarm control panel outputs, a reverse polarity monitoring voltage is used to supervise the wiring and detect open or short-circuit faults. The appropriate end-of-line (EOL) resistor or supervision diode, as specified by the fire alarm control panel manufacturer, shall be installed to ensure correct supervision of the circuit.

DIP Switch Settings

SW1	SW2	Visual	Sounder (if fitted)
OFF	OFF	STEADY	STEADY
ON	OFF	PULSING	PULSING
ON	ON	PULSING	PULSING
OFF	ON	STEADY	PULSING

Applicable Standard

Complies with	AS 1603.11:2018
Test Report	ACTE202503055

Available Faceplates

SH-DNE	DO NOT ENTER
SH-DNE/GD	DO NOT ENTER GAS DISCHARGED
SH-EA	EVACUATE AREA
SH-FA	FIRE ALARM
SH-SI	EXTINGUISHING SYSTEM INOPERATIVE

SH-DNE



SH-DNE/GD



SH-EA



SH-FA



SH-SI

