Illuminated Signs (DO NOT ENTER, EVAC AREA, EVAC BUS)

SKU: 513-SIWS-EVAC; 514-SIWS-DNE

EC Declaration of Conformity

In accordance with EN 45014:1998

Illuminated Warning Sign with Sounders

In accordance with the following Directive:

73/23/EEC The Low Voltage Directive and its amending directives

has been designed and manufactured to the latest issues of the following specifications:

AS 1603-4	Control and Indicating Equipment, Automatic Fire
ISO 7240-2	Detection and Alarm System
AS 300	SAA Wiring Rules
AS 2546-3	Design and Use of Printed Boards

Table of Contents

1. Applications

Marine vessels, trucks, buses, mobile equipment, mining vehicles and equipment, power substations, dust collectors, industrial and domestic, etc.

2. Specifications

Dimensions:	198 (L) x 102 (H) x 38 Depth mm
Weight:	0.4kg
Nominal Operating Voltage:	12-24 VDC
Operating Alarm Current:	Approximately 300 mA
Sleep Mode Current:	0 mA
Sound Output Level:	2 Buzzers by 97 dB at 0.1 m
End-of-Line Resistor:	3K3
End-of-Line Diode:	1N4004
Operation Temperature Range:	0 to +50 degrees C
Operation Humidity Range:	Up to 0 to 85% RH non-condensed
Enclosure Material:	UV Stabilized PVC
Facia Material:	3 mm Opal Acrylic
Pre-cut Conduit Entries:	2 x M25

3. Short Description

Illuminated Warning Sign (further referred to as Sign) is used for visual and audio warnings. It operates from 8 to 30 VDC and is activated by alarm voltage.

The Sign's standard faceplates (can also be custom-made) are:

- EVACUATE AREA
- EVACUATE
- DO NOT ENTER

4. Features

- Three super bright LEDs (Light Emitting Diodes)
- Two internal Sounders with Pulse and Steady audio options
- Universal input 12 or 24 VDC from a standard siren output
- Monitored visual & audio output under alarm condition to ensure system integrity
- Computability with standard indication and warning devices on the same circuit
- Easy installation
- Compact model size suitable for marine and mobile equipment
- Very low power consumption
- Surface Mounted Print Circuit Board
- Manufactured to Australian Standards

5. Operation

The Sign operates from 8 to 30 VDC. The visual and audio signals are activated when an alarm voltage with the correct polarity is applied to Sign's terminals. A reverse polarity voltage is used for monitoring a fault condition in Sign's circuit. An end-of-line resistor 3K3 or end-of-line diode is required to monitor the wiring to Sign.

6. DIP Switch Settings

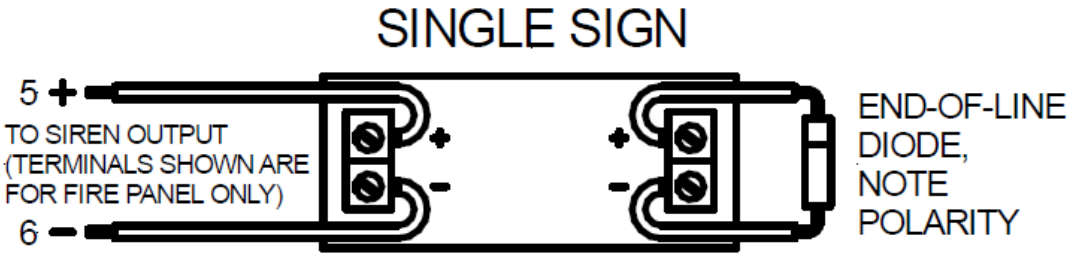
Switch 1	Switch 2	Visual	Sounder
OFF	OFF	STEADY	STEADY
ON	OFF	PULSING	PULSING
ON	ON	PULSING	PULSING
OFF	ON	STEADY	PULSING

7. Wiring

Sign has 2 sets of parallel terminals. Either terminal can be connected (plus to plus and minus to minus) to an alarm output of a fire panel. The other terminal must be connected to an end-of-line 3K3 resistor or end-of-line diode (note polarity).
All wiring shall comply with the installation requirements for fire equipment with cables having a core wire diameter from 0.5 to 1.5 mm².
Single and multiple Sign connections are possible and are as follows:

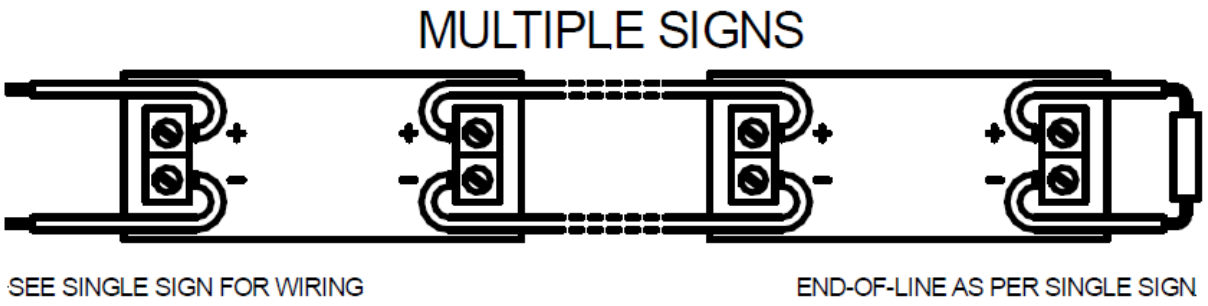
Single Sign

Option	Terminal 1	Terminal 2
1	ALARM OUTPUT	End-of-line Resistor or Diode
2	End-of-line Resistor or Diode	ALARM OUTPUT



Multiple Signs

Sign 1 Terminal 1	Sing 1 Terminal 2	Sign 2 Terminal 2	Sign 2 Terminal 2
ALARM OUTPUT	SIGN 2 TERMINAL 1	SIGN 1 TERMINAL 2	End-of-line Resistor or Diode



8. Mounting

Sign is usually mounted horizontally by 4 screws through the specially allocated mounting Cups (10 mm in diameter) located in the corners of the rear side of the plastic Enclosure. The size, shape, material and quantity of the screws should be customised according to the surface properties, to which Enclosure is to be attached to.

The wiring and the settings of the DIP switches should be completed before Sign's mounting.

Factory default settings are: Switch 1 – OFF and Switch 2 – OFF.

The recommended step-by-step procedure to mount Sign as follows:

1. Open up the facia of Sign by undoing 4 screws at the front.
2. Set up DIP switches according to Customer's preferences.
3. Unscrew Plugs from the required pre-cut wiring holes located at the sides of the Enclosure. Do not unscrew unused Plugs.
4. Wire up 2 terminal blocks through the wiring holes using standard cable glands.
5. Check end-of-line resistor or end-of-line diode in place.
6. Connect Sign to a fire protection system.
7. Close up the facia of Sign by tightening 4 screws at the front.
8. Check Sign's operating following instructions of the fire protection system. (Warning: Do Not Test Sign operation with open facia to avoid eye exposed by super bright LEDs).

9. Contact Information:

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