

SDM - 100

SIREN DRIVER

FEATURES

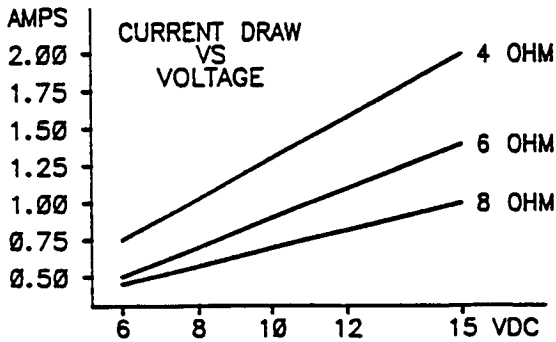
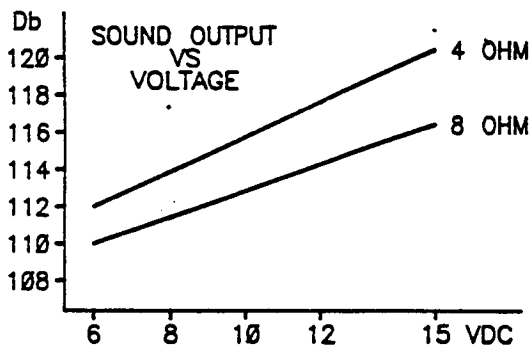
- POWERS UP TO 4 SPEAKERS
- 4 OHM LOAD CAPABILITY
- LOW CURRENT DRAW
- HIGH SOUND OUTPUT
- YELP \ PULSING TONE OUTPUT
- WIDE OPERATING VOLTAGE RANGE
- COMPACT SOLID-STATE CONSTRUCTION
- DEPENDABLE DSC QUALITY

DESCRIPTION

The SDM-100 Siren Driver is a compact, general purpose module for use where high dB sound output is required. The unique circuit design provides a high sound level output with a lower current requirement than comparable units. Careful design of the output stage results in a very low power loss which maximizes power to the speaker load and maintains a very low heat rise on the output stage for longer life of the solid-state components.

The SDM-100 has a single input which controls the output tone. (Yelp or Pulsing) If the output from the control panel is a steady DC voltage, the SDM-100 will generate a Yelp tone. If the output of the control panel is a pulsing DC voltage, the SDM-100 will generate a pulsing tone which will pulse at the same rate as the input from the control panel.

SPECIFICATIONS



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VOLTAGE..... 6 to 15 VDC
 CURRENT with 8 ohm load..... .45 to 1.0 Amp
 with 4 ohm load..... .75 to 2.0 Amp
 dB OUTPUT with 8 ohm load..... 110 to 116 dB
 with 4 ohm load..... 112 to 119 dB
 MOUNTING..... Double sided tape (supplied)
 DIMENSIONS..... 2.25" X 2.75"

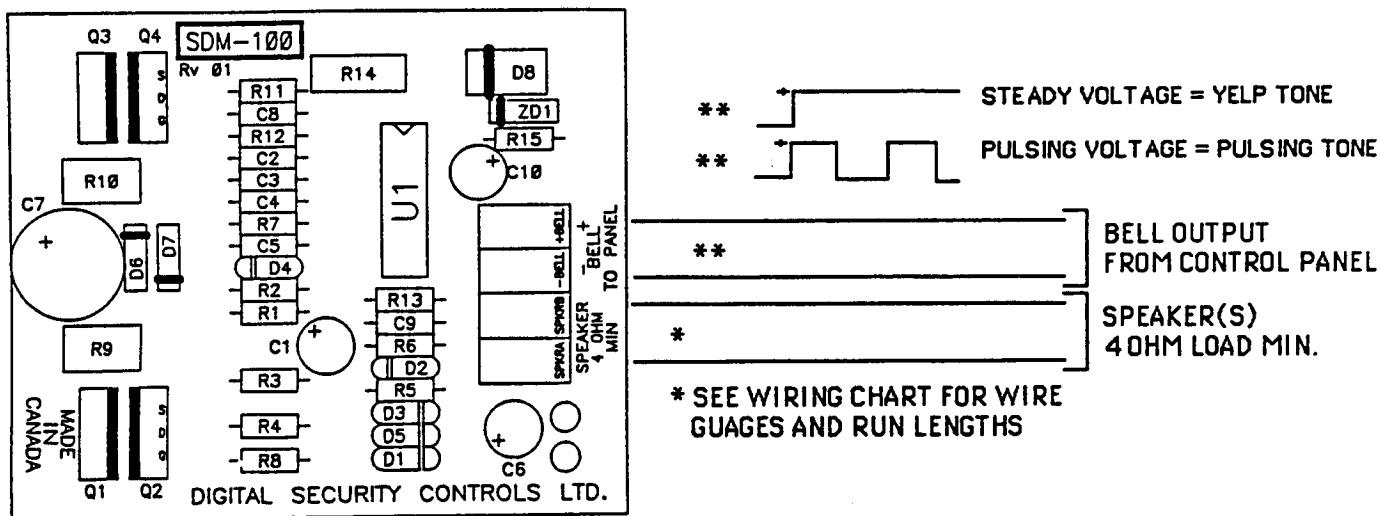
WIRE RUN DISTANCES FROM SDM-100 TO THE LAST SPEAKER

| AWG | 4 OHM | 6 OHM | 8 OHM |
|-----|-------|-------|-------|
| 18 | 120' | 160' | 220' |
| 16 | 190' | 250' | 350' |
| 14 | 300' | 400' | 560' |

NOTE : Calculations for the wire run distances are based on a maximum voltage drop of 10% at the last speaker. Wire lengths shown are valid over the voltage range of 6 to 15 VDC at the power input of the SDM-100.

INSTALLATION

WIRING THE SDM-100



NOTES :

- The sound output level can be increased by :
 - Using larger speakers (recommended speaker is 30 watts)
 - Operating the SDM-100 from a higher voltage source (15 VDC max.)
- Speakers mounted outside the protected premises should be fused such that a short on the external speaker will not disable the internal speaker. (see typical speaker connections below)
- The tone output of the SDM-100 is controlled by the Bell output from the control panel. If the output is a steady DC voltage, the siren driver will output a Yelp tone. If the output is a pulsing DC voltage, the siren driver will output a pulsing tone which will pulse at the same rate as the Bell output from the panel. NOTE : The pulsing output should have an 'ON' time that is not greater than 1 second.

TYPICAL SPEAKER CONNECTIONS

