



16-POSITION NUMERIC SELF-SCAN PANEL DISPLAY Model SSD 1000-0010

The model SSD 1000-0010 SELF-SCAN panel display is a single row, sixteen position display with associated drive electronics, packaged in a housing with an integral bezel. The display has a repertoire of sixteen characters. Each character is displayed in a five-by-seven dot matrix format with two columns of space between each character. Each character is defined by a positive logic four bit code.

The display operates in a scanning mode, scanning from left to right, one full column at a time. Seven clock pulses must be provided for each character position. The appropriate four bit code must be present during the first five clock pulses of each character position. After the last character is displayed a reset pulse must be generated to initiate a new scan. A new scan may be initiated before the last character, at any time during the scan, by generating a reset pulse. This, however, must be done only on a low duty cycle basis. Generating the reset pulse prior to the sixteenth character position increases the duty cycle of the positions used, thereby changing their aging characteristics. When operating in this mode, the reset pulse must be held a minimum of $2t_1$ us. The recommended method of displaying less than the full sixteen character positions is to supply a blank code for the undesired positions.

The following signals are required for proper operation:

CLOCK INPUT—Seven clock pulses must be supplied for each display position.

DATA INPUTS—A four bit code must be present at the data input terminals during the first five clock pulses of each character position.

RESET INPUT—One reset pulse must be supplied after each complete scan or after the last character to be displayed.