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**SELECTRONIX, INC.**  
WOODINVILLE, WA

**SUPERSTEP SERIES 4000**  
**SEQUENCING STEP**  
**CONTROLLERS**

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**INSTALLATION & OPERATING**  
**ADDENDUM 220**  
**ALTERNATE FUNCTION RELAYS**  
**FEATURE**

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## Introduction

This addendum describes a new feature for the **SLC4000-8** controller, and is included in firmware revision 2.20 or greater..

The last 3 relays on an 8 relay board have an alternate function, which is made available by selecting the appropriate 'Quantity of Relays To Use' for operational usage, thus allowing the alternate function.

The output of any of the Alternate Function relays is a closed contact to the 'RLYCOM' terminal tab #6 in all cases, which is typically connected to L1. If an **isolated contact is required**, then connect a separate relay to the output.

The 'Quantity of Relays To Use' is determined by on-board DIP switch positions SW2-6 to SW2-8.

For systems that require additional operational relays, additional SLC4000 units may be cascaded in the normal fashion, in any combination of 4 or 8 relay models. Sequencing and all other features of the Master and Expansion units are unchanged from previous versions.

### 1 AnyOn Alternate Function – Relay #8

This relay turns on whenever there are one or more operational relays on, and is available when the 'Quantity of Relays To Use' is 7 or less. This could be used as a pilot signal to operate a circulating pump or to drive an external indicator, for instance.

#### 1.1 SW2 Settings

SW2-6	ON
SW2-7	ON
SW2-8	ON

### 2 AllOff Alternate Function – Relay #7

This relay turns on whenever there no operational relays on, and is available when the 'Quantity of Relays To Use' is 6 or less. The AnyOn Alternate function for relay #8 is also enabled. This output could be used to signal a Building Automation System, or to drive any external indicator or alarm.

#### 2.1 SW2 Settings

SW2-6	ON
SW2-7	ON
SW2-8	OFF

### 3 Fault Alternate Function – Relay #6

This relay turns on whenever there is a detected system fault, and is available when the 'Quantity of Relays To Use' is 5 or less. See the on-board Status Led to determine the actual detected fault. The AnyOn and AllOff Alternate functions for relays #8 and #7, respectively, are also enabled. This output could be used to signal a Building Automation System, or to drive any external indicator or alarm.

#### 3.1 SW2 Settings

SW2-6	ON
SW2-7	OFF
SW2-8	ON