AS-BDAP-216N Output Module

DOK-707 757.20-0198 (GI-BDAP-RMF Rev. A)

Read-Me-First

The AS-BDAP-216 has been enhanced. The enhancements have resulted in the AS-BDAP-216 being superceded by the AS-BDAP-216N.

Warning In the event of an enabled output sensing an over current condition, the output will disable, until the over current condition is removed. The output will then re-enable itself, if still set ON in the logic program.

1. The manual reset button of the BDAP-216 has been replaced by a solid state retry on a shorted output.

2. The module restarts field devices automatically when the output is set ON in the User Logic and the detected field over current condition is removed. Refer to the user logic example in Figure 1 if detection and manual reset is still desired.

3. You may now apply the full 0.5 A per point for 4 A per Group and 8 A per Module.

Each Compact I/O Module returns a Health Bit to the controller when in use. This bit is a single bit in a register that shows the slot position of the module and its status. When the module is functioning correctly this bit is set to ”1”. User logic can be attached to the state of this bit to hold the logic associated with this module in an OFF condition until an operator pushes a switch to reactivate the user logic.

GROUPE SCHNEIDER

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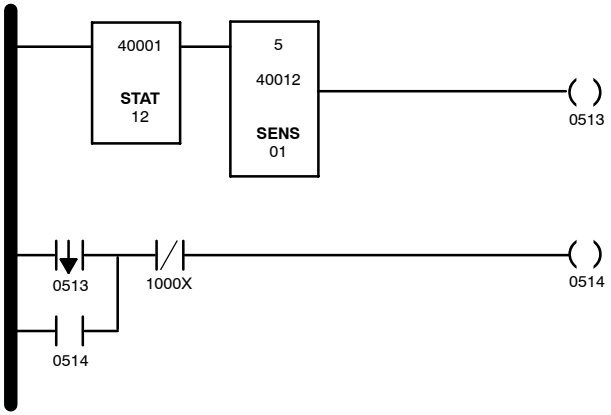

Figure 1 User Logic Example to Detect Module Overload Condition

In Figure 1, a STAT function is used to read 12 registers of which register 12 is the status word for the modules in the primary rack 1. The BDAP-216N has been placed in slot number 5, so a SENS function block is used to sense bit 5 of this register. The output is tied to coil 0513 which turns OFF when the module becomes unhealthy. To trap this condition even if coil 0513 turns ON again, it is latched into coil 0514. This coil can then be used by the programmer as an enable/disable to ladder logic associated with the BDAP-216N in this particular slot and particular process. The user logic is restarted by the operator pressing a button attached to input 1000X.

☞ **Note** The BDAP-216N will automatically restart and reset the Health Bit when the overload condition is removed. This network only holds the reset condition of any user logic programmed OFF under the control of coil 0514 in the above example.

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