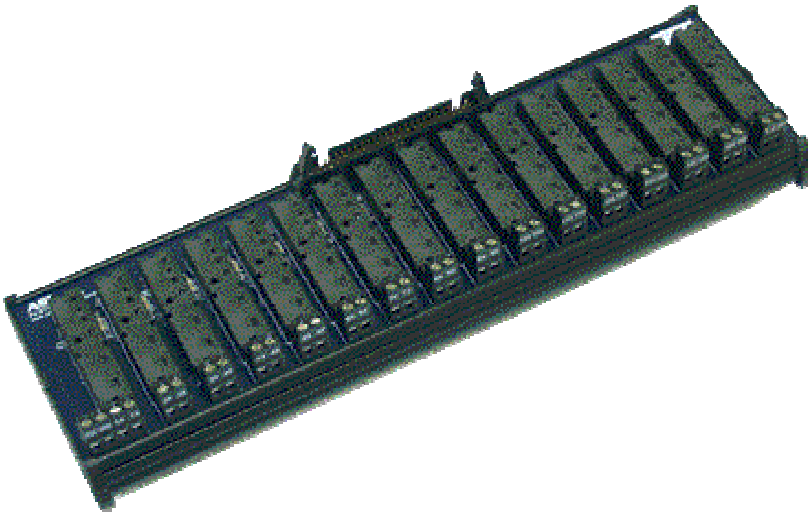


# Application and Capability Note

## Solid State Relay Custom Interface Module



Automation Systems Interconnect, Inc has a broad range of products that are used in automation and industrial control applications. Although our standard line of products solves most of the applications that a customer encounters for interconnect, interface and sensing applications, sometimes the application calls for something special. In many control system applications today, the customer is faced with a need to include some type of interface relay in the design in order to transition from one voltage level to another or to turn a component off and on. Both electro-mechanical and solid state relays are used in these types of applications based on the design parameters of the circuit. ASI provides a means to include either type of relay in the circuit with either standard or custom products.

The photograph shows a perfect example of a custom interface module that was designed to meet the customer's need for solid state relays in his control circuit. In this case the customer is manufacturing mail sorting equipment and needed to install up to 16 solid state relays in his control circuit. Since the engineers at ASI are very familiar with designing custom manufacturing equipment this was a quick and easy design. Within a matter of days our design department was able to produce a design, drawings and a quotation for the customer. After a review and approval by the customer we were able to have working modules in the customers hands within a matter of weeks. Using a high density ribbon cable for connection to the module the customer was able to substantially reduce the amount of time necessary to wire from the controller to the solid state relays. On the opposite side of the module we provided easy to wire high density printed circuit board terminal blocks. The result was a product, seen here, that saves the customer time, space and money.

Custom interface modules such as this one and many of the others now in manufacture by ASI are examples of our continued effort to provide the customer with a value-added product that solves manufacturing and installation problems. In many cases the customer is not aware of how this type of innovative design concept can improve his wiring and interface. It takes a conceptual sell that includes knowing the application and the capabilities of ASI. The first step is to look into the interconnect and interface portion of a piece of equipment. Are there areas that could be consolidated onto a printed circuit board thereby reducing wiring and space? Are there possibilities to eliminate costly wiring and terminal blocks by replacing them with an interface module? Is the customer having space problems in the cabinet that could be eliminated with a custom interface module or printed circuit board design? If you consider the possibilities, such as this customer did, you will find that this innovative interconnect and interface approach is able to solve a lot of problems and improve overall designs. Check with the ASI Engineering department to discuss any customer concepts and applications that you may have in mind.