

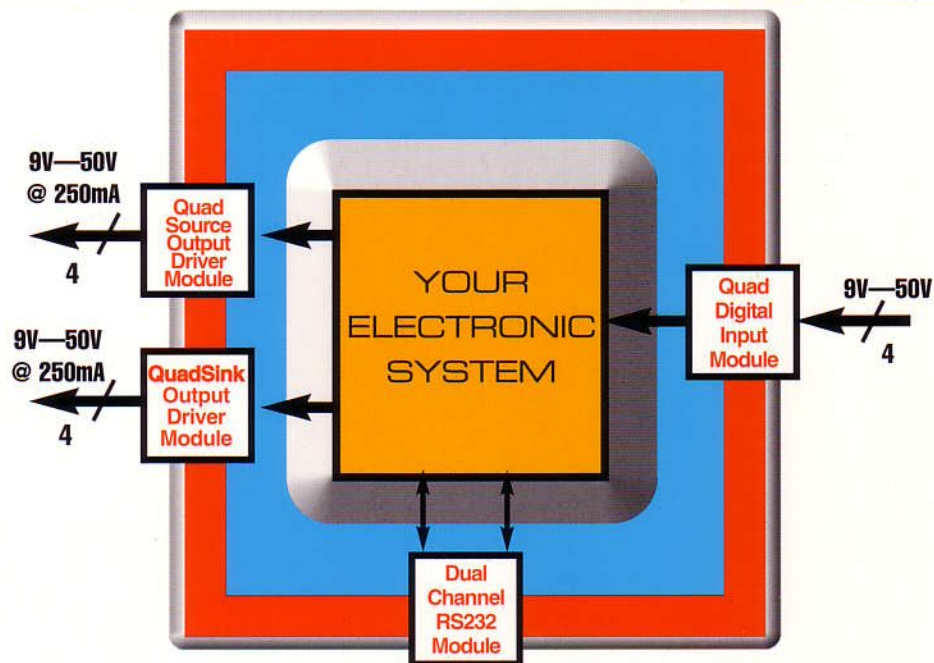
LPS



LASER PHOTO-TOOLING SERVICES
INCORPORATED



ISOLATION PRODUCTS CATALOG



LPS, Inc. is pleased to offer a complete line of isolation modules for use in communications, high voltage output drive (sink and source) and high voltage input reading. These modules provide cost effective methods for marrying low voltage controls to high voltage loads. They are designed to operate for long reliable service in demanding industrial environments. Isolation for the I/O modules is 2500VRMS for one minute while the RS232DI module is 1520VRMS for one minute. This makes them ideal for applications with high transient voltages and different ground potentials. The modules are contained in a hard epoxy 40 pin DIP package for excellent environmental protection and can operate from -40C to +85C.

Serial communications among electronic systems often require isolation to insure that ground differences between the systems do not result in system damage or erroneous data transmission. For problems associated with RS-232 communications, LPS has developed the RS232DI (pin for pin compatible with the MAX252 manufactured by MAXIM). The RS232DI is a complete, electrically isolated, dual RS-232 Transceiver that includes isolation for the communications lines and the single +5V power supply. It can be used for microprocessor (TTL) to PC communications with no additional parts or configured for PC to PC communications with the addition of one transceiver chip.

The high voltage output driver modules (SNKQI/SRCQI) deliver a photo-isolated noise free output from a microprocessor or logic level system to external loads such as valves, solenoids, relay coils, etc. The SNKQI and SRCQI are designed to be pin for pin compatible to allow the user to configure system outputs to either sink or source current. The high voltage input module (DIGINQI) provides a photo-isolated, noise free interface from a high voltage load or sensor to a microprocessor or logic level system. Both output driver modules and the input reader module have four independently controlled channels that operate from 9 to 50 VDC and a complete microprocessor interface. The output driver modules sink or source up to 250mA per channel and include a reset function that guarantees all outputs will be disabled during power-up.