DOUBLE D ELECTRONICS LTD



Waveguide Switch Buffers

- * Control of non-standard Waveguide Switch
- * Interface to "common positive" coils
- * Isolation of supplies
- * Support for different supply voltages
- * Compatible with DDA70 and other controllers
- * Booster/isolator for low power drive circuits

The DDS0506 and DDS0509 provide a simple interface between the DDA70 (and similar waveguide switch controllers) and waveguide switches which require a drive with a common positive. They also allow use of alternative drive voltages and power supplies.

Each buffer comprises a strip of circuit board carrying five identical circuits. This can be plugged directly onto the outputs of a DDA70 to convert the interface, or wired appropriately. The strip may be cut into individual buffers if required.

The drive circuit on both buffers is electrically isolated from the output, giving the capability to solve ground loop, isolation and supply voltage issues.

On the DDS0509 the tellback and lock signals are simple through links (isolated from each other and both sides of the drive circuit), which is sufficient for many applications.

The DDS0509 implements electrical isolation on the tellback and lock signals.

These buffers are directly compatible with the range of waveguide switch controllers produced by Double D Electronics Ltd, including the DDA70, DDA86, DDA219 and DDA224, including connector types and pinouts. They can be used with virtually any industry-standard switch having common positive coil drive and at least one set of tellbacks. Switch lock status inputs are also available.

Ordering Information

DDS0506-01 Strip of five buffers with electrical isolation on drive circuit, lock circuits and tellbacks.

DDS0509-01 Strip of five buffers with electrical isolation on drive circuit. Lock and tellback connections taken straight through.

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SPECIFICATION

- Physical: Strip of five identical circuits on unprotected PCB 67.5 x 173mm.
- Power: 24-28V d.c. (Other voltages on request). Current consumption <100mA quiescent. Up to 3A peak when switching, dependent on waveguide switch being controlled. May be derived from a low-current supply and large reservoir capacitor (typically >47,000µF).
- Connectors: Power 2-way pluggable terminal block Control - 9-pin D-plug (direct connection to WGS connector on DDA70 etc) Waveguide Switch - 9-pin D-socket (compatible with DDA70 WGS connector)
- Control: Switched +24V pulse for each direction of switch controls output buffer. Control inputs also provide power to switch if capacity available. DDS0506 - tellback and lock inputs have electrically isolated interface. DDS0509 - tellback inputs, lock inputs individually wired through from WGS connector to control connector.

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