



DOUBLE D ELECTRONICS LTD

DDS0314 Remote Waveguide Switch Buffer

- * For controlling distant Waveguide Switch
- * Various mounting options
- * 24-28V d.c. Power Supply
- * d.c. level control signals
- * Supports capacitor-based power reservoir

The DDS0314 may be used to buffer the drive to a waveguide switch, in circumstances where the distance from the controller to the switch would otherwise require a substantial cable to minimise volt drop. It is particularly cost-effective in situations where only one or two waveguide switches are to be controlled, or where it is impracticable to use a remote serial link configuration.

The DDS0314 is sited adjacent to the waveguide switch, and may be operated in one of two modes:

- a) Local power supply - a 24-28V supply capable of providing the full switching current is available close to the switch
- b) Local power reservoir - a large electrolytic capacitor is trickle-charged from any available 24-28V supply; either local or from the distant controller. This then provides sufficient energy to control the switch on demand.

Several DDS0314 may share one power supply or reservoir capacitor, providing it is able to meet the demands placed upon it.

The DDS0314 is available in a number of mounting arrangements:

- a) 3U 19" rack mount with front panel
- b) DIN rail mount

The DDS0314 is 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. It can be used with virtually any industry-standard switch having at least one set of tellbacks. Switch lock status inputs are also available.

SPECIFICATION

- Physical: DIN Rail Mount (“Top Hat”) type
or 100mm x 60mm 3U rack mount card with integral front panel
- Power: 24-28V d.c. <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 - 4-way 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. Tellback inputs, lock inputs carried through from WGS connector to control connector.

Ordering Information

- DDS0314-01 Waveguide switch buffer as 3U rack mount PCB
- DDS0314-11 Waveguide switch buffer as DIN-rail mount module

Note: Power supply components to be ordered separately if required.