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WF 3132

C Series Multiplexer Module

The WF 3132 from WireFlow is a 32-channel Multiplexer/Matrix Switch for Compact RIO and Compact DAQ. It is a general-purpose switch that can be used to switch almost any type of signals. The relays have ruthenium sputtered contacts making them ideal for low current switching, but are at the same time capable of switching up to 0.5A.

The 32 SPST reed relays can be used in multiple configurations:

- 1 x 32 (1 wire)
- 1 x 16 (2 wire)
- 1 x 8 (4 wire)
- Four banks of 1 x 8 (1 wire)
- 4 x 8 Matrix (1 wire)

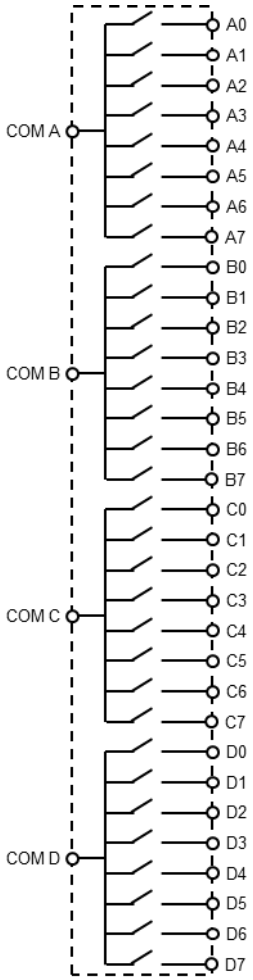


Application areas

- High channel count test systems
- High channel count control systems
- HiL testing (Hardware in the Loop)
- Production test
- Galvanically isolated interfacing

Features

- 32 SPST relays
- Multiple configurations possible
- Standard 37-pin D-sub connector
- LabVIEW driver included
- Compatible with NI VeriStand



Specifications

Number of Relays	32
Max Voltage	60 VDC / 30 VRMS
Max Current	0.5 A
Max Power	10 W
Max Resistance	0.3 Ω
Max Update Rate	1500 S/s
Bandwidth	> 10 MHz
Relay Debounce time	0.3 ms
Max no. of active relays[1]	16
Life expectancy of relays[2]	10E8

[1] Relevant only for mode Individual relay control

[2] The life of a reed relay depends upon the switch load and end of life criteria. For example, for an 'end of life' contact resistance specification of 1 Ω, switching low loads (10 V at 10 mA resistive) or when 'cold' switching, typical life is approx. 2.5 x 108 ops. At the maximum load (resistive), typical life is 1 x 106 ops. In the event of abusive conditions, e.g. high currents due to capacitive inrushes, this figure reduces considerably.

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WF 3132 Data Sheet
AB0005-008, rev I

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