2500 Series PLC System
Product Bulletin

2531 32-Point Form-A Relay Output Module

Description

The 2531 32-Point Form-A Relay Output Module provides 16 or 32 Form-A outputs isolated in groups of eight for the CTI 2500 Series® or Simatic® 505 I/O base. The module uses relay output circuits to switch on or off external devices such as pilot lamps, motor starters, or solenoids. The 2531 is designed to switch externally supplied 15 to 240 VAC and 15 to 30 VDC. The internal logic signals are isolated from the external outputs to 2100 VDC.

Features

* CTI 2500 Series® or Simatic® 505 base format
* 16 or 32 Form A relay outputs
* Replaces Siemens® 505-4932 with no rewiring
* Isolated 3000 VDC group-to-group
* Isolation in groups of 8
* Wide 15-240 VAC and 15-30 VDC output range
* 4.0 Amps per output
* Individually fused outputs

Specifications

Outputs per module: 16 or 32
Isolation: 2100 VDC channel-to-backplane
3000 VDC group-to-group
Output voltage: 15 - 240 VAC
15 - 30 VDC
Indicators: 32 individual LEDs
Maximum output current:
4A per point (resistive)
8A per group (resistive)
Switching rate: 5 ops/sec (no load),
0.5 ops/sec (rated load)
Type of contact: Form A
Type of outputs: Individually fused
Minimum contact load: 10mA @ 5 VDC
Contact life:
@ full rated current, 4A = 400,000 cycles
@ 2A = 1,000,000 cycles
Backplane Power: 1.7 Watts
User Power Supply: 24VDC ±10%
600 mA (all outputs ON)
Fuses: field replaceable, channel and unit

32, 5 amp, 250V,	1, 1 amp, 250V,
Littelfuse #215.005	Littelfuse #217.001
Schurter #0001.2511	Schurter #034.1516

Connector: Removable
Wire Gauge: 14 - 22 AWG
Module Size: Single-wide
Operating Temperature:
0° to 60°C (normal locations)
0° to 50°C (Class 1 Div 2 locations)
Storage Temperature: -40° to 85°C
(-40° to 185°F)
Relative Humidity: 5% to 95%
(non-condensing)
Agency Approvals:
UL, UL-Canada, CE, Class 1 Div 2
Shipping Weight: 1.5 lb. (0.68 Kg)

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