Product Details and Certifications

Cross Reference RA Part Number: 1746-NO8I A

Product: 1746-NO8I

Description: 1746 SLC System, 8 Channel Analog Current Output for SLC 500

Representative Photo Only (actual product may vary based on configuration sections)

I/O MODULES AND HARDWARE

Bulletin Number	1746 SLC 500 I/O Module
Number of Outputs	8
Backplane Current (mA) @ 5V	120 mA
Backplane Current (mA) @ 24V	250 mA
Backplane Power Consumption	5.6 W
Thermal Dissipation, Max	6.6 W
Isolation Voltage	Tested @ 500V DC
Output Type	Current
Output Range	0…21.5 mA

8-Channel Output Modules

Optional 24V DC power supply must be N.E.C. Class 2.

Output Specifications for 8-Channel Modules

Catalog Number	1746-NO8I	1746-NO8V
Backplane current (mA) @ 5V	120 mA	120 mA
Backplane current (mA) @ 24V	250 mA	160 mA(1)
Backplane power consumption	5.6 W	5.6 W
Thermal dissipation, max	6.6 W	4.44 W
Isolation voltage	Tested @ 500V DC	Tested @ 500V DC
Number of outputs	8	8
Output type	Current	Voltage
Output range	0…21.5 mA	±10.25V DC
Output coding (proportional scaling)	0…32,767	-32,768…+32,767
Resolution	16-bit 366 nA/count	16-bit 320 μV/count
Non-Linearity	0.06% of full scale	
DAC conversion method	R-2R Ladder Network	
Output step response	1 ms (0…95% of full scale)	
Channel update time (typical)	Class 1: 5 ms to update all 8 channels Class 3: 10 ms to update all 8 channels	
Load range	0…500 Ω	1 kΩ and greater
Load current	N/A	10 mA, max
Output impedance	Greater than 1M Ω	Less than 1.0 Ω
Overrange capability	7.5% (21.5 mA)	2.5% (±10.25V)
Overall accuracy	0.1% of full scale @ 25 °C (77 °F) 0.2% of full scale @ 60 °C (140 °F)	
Overall accuracy drift, max	±33 ppm/°C of full scale	
Gain error	0.08% of full scale @ 25 °C (77°F) 0.15% of full scale @ 60 °C (140°F)	
Gain error drift, max	±25 ppm/°C of full scale	
Calibration	Factory calibrated.	

(1) J4 jumper set to RACK; 0 mA at 24V dc with J4 Jumper set to EXT.