



SLC 500™ 32-Channel Digital I/O Modules

(Catalog Numbers 1746-IB32, -IV32, -OB32, -OB32E and -OV32)

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Output Module Specifications

Description:		Specification: 1746-(4)		
		OB32 Series D	OV32 Series D	OB32E
Voltage Category		24		
Number of Outputs		32		
Points per Common		16		
Operating Voltage		5 to 50V dc Source	5-50V dc Sink	10-30V dc Source
Backplane Current Consumption	5V	0.190A		
	24V	0A		
Isolation from Backplane		1500V ac for 1 min.		
Signal Delay (max.)		on = 0.1 ms off = 1.0 ms	on = 1.0 ms off = 2.0 ms	
Off State Leakage (min.)		1 mA		
Load Current (min.)		1 mA		
Continuous Current per Module (max.) ⁽¹⁾		8.0A at 0° C to 60° C		
Continuous Current per Point (max.) ⁽¹⁾	at 30° C	0.50A		
	at 60° C	0.25A		
Continuous Current per Common (max.) ⁽¹⁾		4.0A at 0° C to 60° C		
Continuous Current per Common Pin (max.) ⁽¹⁾		2.0A at 0° C to 60° C		
On State Voltage Drop (max.)		1.2V at 0.5A		
Surge Current per Point	at 30° C ⁽²⁾	1.0A for 10 ms		
	at 60° C ⁽³⁾	1.0A for 10 ms		
Electronic Protection		No	No	Yes
Heat Dissipation Watts per Point		0.172	0.172	0.250
Heat Dissipation Watts (min.)		0.95	0.95	0.95
Heat Dissipation Total Watts		6.45	6.45	8.95

(1) To attain the maximum Continuous Current per common rating for an OB32 Series D module, both V dc connections in a wire group must be connected to your DC source. To attain the maximum Continuous Current per common rating for an OV32 Series D module, both dc Com connections in a wire group must be connected to your DC source.

(2) Repeatability once every second.

(3) Repeatability once every 2 seconds.

(4) Series A, B, and C 32-point output modules are fused to protect external wiring, one fuse per common. The fuses are non-replaceable and are rated at 2.5A. 1746-OB32, OV32 Series D modules are not fused and have a higher current rating than Series A, B, and C.

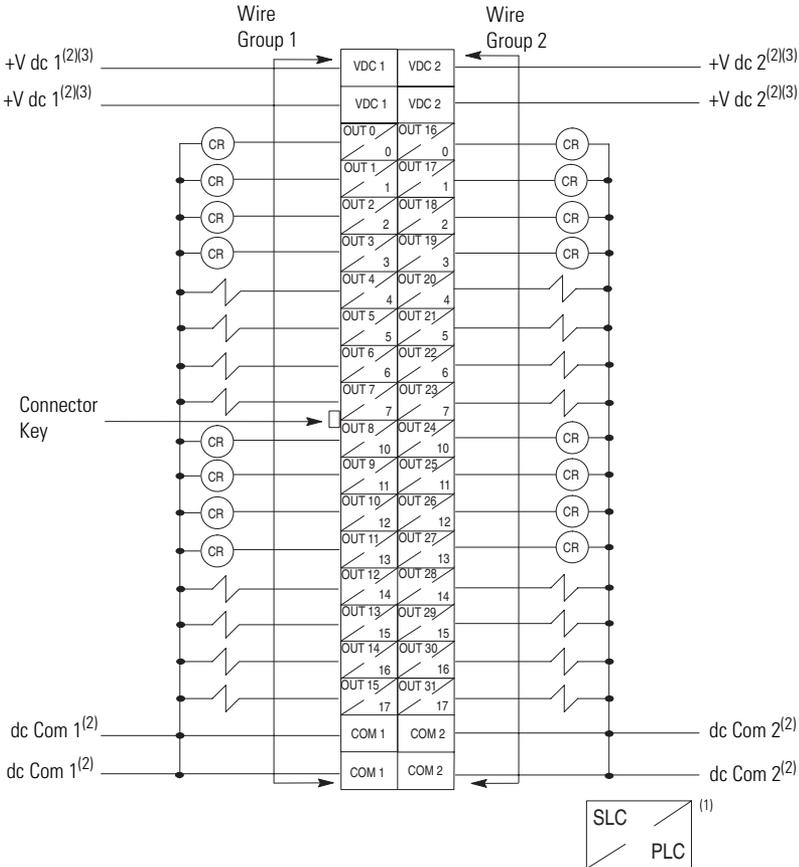
Output Module (1746-OB32 and 1746-OB32E)

1746-OB32

5 to 50V dc Transistor Output Sourcing

1746-OB32E

10 to 30V dc Electronically Protected Sourcing



(1) See decimal and octal coding information on page 16.

(2) The V dc and dc Com pins on the 1746-OB32 and 1746-OB32E output module are isolated between the two groups and the two V dc and two dc Com pins in each group are connected internally.

(3) Both V dc pins must be connected to the dc power source if current for a common group is expected to exceed 2 amps. To maintain group isolation provided by 32-point I/O modules, use a 1492 terminal block that provides group isolation. Consult 1492 documentation or your Allen-Bradley Sales Office for additional information.