

Allen-Bradley 1746-OW8 Manual

Brand	Allen-Bradley
Product Series	1746 1747
Product Type	Digital Contact Output Module

Description

The Allen-Bradley 1746-OW8 is a SLC 500 Digital Contact Output Module. This Digital Contact Output Module has Eight (8) Normally Open (N.O.) Relay channels with operating Voltage of 5-265 Volt AC or 5-125 Volts DC. It has Two (2) output groups with Four (4) channels per Common. Technical specifications for 1746-OW8

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1746-OW8

Series SLC 500

Module Type Digital Contact Output Module

Outputs 8

Operating Voltage 5-265 Volt AC or 5-125 Volts DC

No. of groups 2

Points per group 4

Output Types N.O. Relay Contact

Applications Relay Contact Outputs (4 per Common)

Current/Output (120 VAC) 1.5 amps

Step Response 60 milliseconds in, 2.5 milliseconds out

Current/Output (24VDC) 1.2 amps

Backplane Current 0.85-0.9 A

Signal delay, max resistive load On = 10.0 ms Off = 10.0 ms

Description
The Allen-Bradley 1746-OW8 SLC 500 Digital Input Module comes with Eight (8) outputs. This module has a voltage category of AC/DC Relay. The operating temperature is -25-60 deg. Celsius (-13-140 deg. Fahrenheit) and the nonoperating temperature is -40-85 deg. Celsius (-40-185 deg. Fahrenheit) with a relative humidity from 5-95% without condensation. The operating vibration of this module is 2g at 10-500 Hz and the operating shock of this module is 30g. The Allen-Bradley 1746-OW8 has a maximum heat dissipation of 3.7 Watts with 0.138 Watts per point.

The Allen-Bradley 1746-OW8 Digital Input Module has an operating voltage range of 5-125V DC and 5-265V AC at 47-63 Hz. The backplane current at 5V DC of this module is 85 mA. The backplane current at 24V DC of this module is 90 mA. The Allen-Bradley 1746-OW8 is supplied as open-type equipment. The 1746-OW8 is intended for use in industrial environments. This module should be installed in an environment with a pollution level no higher than Pollution 2 (as defined in the EN / IEC0664-1 publication) when applied in a Zone 2 environment. The enclosure should be accessible only by means of an appliance or tool. Do not disconnect equipment unless the power has been removed. Do not disconnect the equipment if the area it is in is dangerous. If this is disregarded, a dangerous electric arc will be created. The Allen-Bradley 1746-OW8 is an Eight (8) channel relay output module made by Allen-Bradley that is used with SLC 500 Programmable Logic Controller (PLC) platform. It is specifically compatible with fixed or modular style hardware for use with SLC 5/01, SLC 5/02, SLC 5/03, SLC 5/04 and SLC 5/05 controller.

Use this module with operating voltage categories of 5 -125 VDC and 5 - 265 VAC. This module is divided into Two (2) groups with Four (4) channels per group to allow operation with different or same voltages. Surge suppression devices may be installed to maximize the module's designed operating lifespan.

Aside from SLC processors, this module is compatible for use in remote I/O topology. When used in Remote I/O chassis, slot 0 of the chassis is reserved for an SLC 500 communication adapter. Other slots are compatible for this module.

With the use of the 1746-OW8, the need of interposing relays may be eliminated. Interposing relays are typically used for operation with different voltage category. As this module already support the mentioned capability, the need for interposing circuit is eliminated, saving panel space and increasing cost effectiveness.

This module has similar signal delay rating of 10.0 ms for ON and OFF transitions at maximum resistive load. This module is certified for Class 1, Division 2 operation. The continuous current per module is 16.0 Ampere AC with 8.0 A per group. It occupies single slot of the chassis regardless of the installation location.

Technical Specifications

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