

Mixed DC I/O Module

HE800DIQ716

12/24 Vdc In, Positive/Negative Logic (16 Input Channels) 10-28Vdc Out, Positive Logic (12 Output Channels)



1 SPECIFICATIONS

INPUT	DIQ716
Inputs per Module	16
Commons per	3
Module	,
Input Voltage Range	12-24VDC
Peak Voltage	35VDC Max.
Isolation	500VDC
(Channel to Channel)	300 V D C
ON Voltage Level	9VDC /1mA minimum
OFF Voltage Level	3VDC
,	

	DIQ716
Input Characteristics	Bidirectional
Input Impedance	10K Ohms
Minimum ON Current	1mA
Maximum OFF Current	200μΑ
OFF to ON Response	1ms.
ON to OFF Response	1ms.

OUTPUT	DIQ716
Outputs per Module	12
Commons per Module	1
Operating Voltage	10 - 28VDC
Output Type	Sourcing / 10K Pull-Down
Peak Voltage	28VDC Max.
Maximum Load Current per channel	0.5A Max.

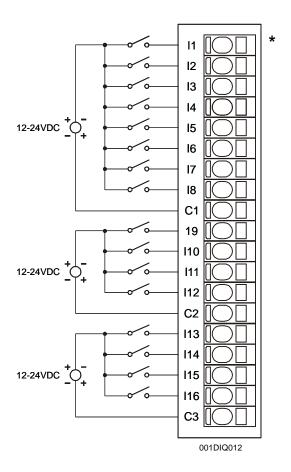
	DIQ716
Maximum Inrush Current	650mA
Minimum Load	None
OFF to ON Response	1ms.
ON to OFF Response	1ms.
Output Characteristics	Current Sourcing
Output Protection	Short Circuit

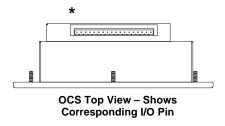
General Specifications				
Required Power (Steady State)	0.13W (5.5mA @ 24VDC)	CE	Refer to MAN0005	
Required Power (Inrush)	Negligible	UL	Operating Temperature Code T4; Also refer to SUP0259	
Relative Humidity	5 to 95% Non-condensing	Terminal Type	Spring Clamp, Removable	
Operating Temperature	0° to 60° Celsius	Weight	9 oz. (256 g)	

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2 WIRING

2.1 Input Wiring

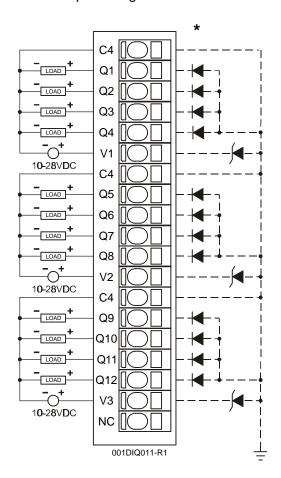


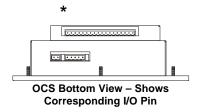


Pin	Signal
FIII	DIQ716 INPUT
l1	Input 1
12	Input 2
13	Input 3
14	Input 4
15	Input 5
16	Input 6
17	Input 7
18	Input 8
C1	Common 1 (Isolated)
19	Input 9
I10	Input 10
l11	Input 11
l12	Input 12
C2	Common 2 (Isolated)
I13	Input 13
l14	Input 14
l15	Input 15
I16	Input 16
C3	Common 3 (Isolated)

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2.2 Output Wiring

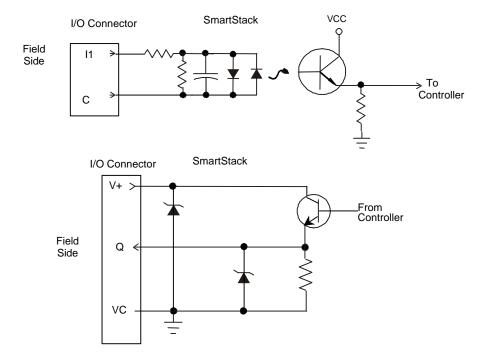




Pin	Signal
PIII	DIQ716 OUTPUT
C4	Common
Q1	Output 1
Q2	Output 2
Q3	Output 3
Q4	Output 4
V1	Load Power 1
C4	Common
Q5	Output 5
Q6	Output 6
Q7	Output 7
Q8	Output 8
V2	Load Power 2
C4	Common
Q9	Output 9
Q10	Output 10
Q11	Output 11
Q12	Output 12
V3	Load Power
NC	No Connection

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3 INTERNAL SCHEMATIC DRAWING



Specification for transient voltage suppressors (transorbs) used on output circuitry is 33VDC, 600 watts.

4 CONFIGURATION

Note: The status of the I/O can be monitored in Cscape Software.

Preliminary configuration procedures that are applicable to all SmartStack™ Modules are located in the Control Station Hardware Manual (MAN0227).

Selecting the **I/O Map** tab provides information about the I/O registers, which are assigned to a specific SmartStack™ Module and where the module is located in the point map. The I/O Map is determined by the model number and location within the SmartStack™. The I/O Map is not edited by the user.

The **Module Setup** is used in applications where it is necessary to change the default states of the outputs when the controller (e.g., OCS100) enters idle/stop mode. The default turns the outputs OFF when the controller enters idle/stop mode. By selecting the Module Setup tab, each output can be set to either turn ON, turn OFF or to hold the last state. Generally, most applications use the default settings.

Warning: The default turns the outputs OFF when the controller enters idle/stop mode. To avoid injury of personnel or damages to equipment, exercise extreme caution when changing the default setting using the **Module Setup** tab.

5 INSTALLATION / SAFETY

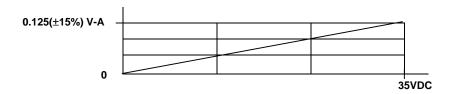
Warning: Remove power from the OCS controller, CAN port, and any peripheral equipment connected to this local system before adding or replacing this or any module.

- a. All applicable codes and standards are to be followed in the installation of this product.
- b. Use the following wire type or equivalent: Belden 8917, 16 AWG or larger.

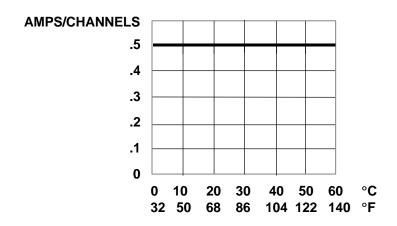
For detailed installation information, refer to Chapter Two in the Control Station Hardware Manual (MAN0227). A <u>handy checklist</u> is provided that covers panel box layout requirements and minimum clearances.

6 INPUT / OUTPUT CHARACTERISTICS

Digital Input Chart



Derating Chart for DIQ716



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7 TECHNICAL ASSISTANCE

For assistance, contact Technical Support at the following locations:

North America:

(317) 916-4274 or visit our website at www.heapg.com.

Europe:

(+) 353-21-4321-266