

OCS-I/O - HE959DIQ616

8 Digital Inputs, 8 Digital Outputs

1 TECHNICAL SPECIFICATIONS

1.1 General Specifications

Required Power (Steady State)	<130mA @ 5V <26mA @ 24V
Digital Inputs	8
Digital Outputs	8
Relative Humidity	5-95% non-condensing
Port Connectors	Phoenix Contact 2201780
Port Wiring - Digital I/O	16-24 AWG / 0.2-1.5mm±
Operating Air Temp	-40°C (-40°F) to 60°C (140°F)
Storage Temp	-40°C (-40°F) to 85°C (185°F)
Weight	3.10 oz.
Dimensions	76.5mm x 124.5mm x 19mm 3" x 4.9" x 0.75"
Certifications (UL/CE)	North America: https://hornerautomation.com/certifications/ Europe: https://www.hornerautomation.eu/support/certifications-2/



Cscape Configuration - See MAN1175 for the HE959CNX116.

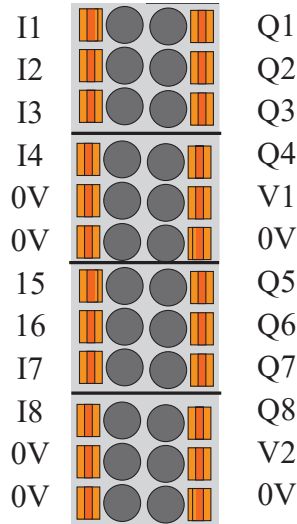
1.2 Digital Inputs

Inputs per Module	8
Commons per Module	1
Input Voltage Range	12V to 24VDC
Absolute Max Voltage	32VDC
Input Impedance	10kΩ
OFF to ON Response	1ms
ON to OFF Response	1ms
Galvanic Isolation	No
I/O Indication	Status LED per Input
Logic Polarity	Selectable - common for all four inputs
Connector Tye	Phoenix Contact 2202234

1.3 Digital Outputs

Inputs per Module	8
Commons per Module	1
Absolute Max Voltage	28VDC
Output Protection	Short Circuit
OFF to ON Response	1ms
ON to OFF Response	1ms
Connector Type	Phoenix Contact 2202234
Output Current per Channel	0.5A
Max Total Output Current	4A

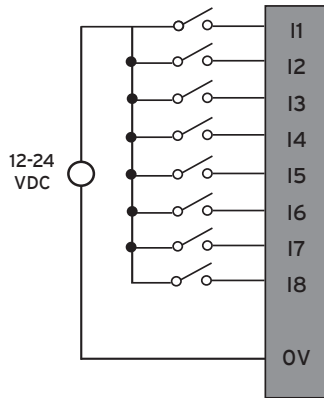
3 WIRING



Use 75°C copper conductors only.

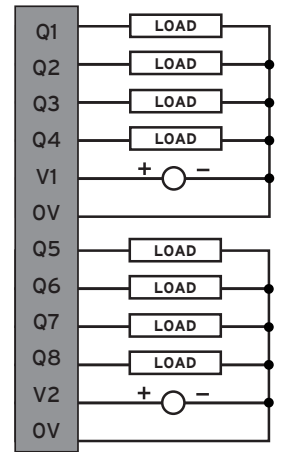
Digital Inputs

8 INPUTS	
SIGNAL	DESCRIPTION
I1	Input 1
I2	Input 2
I3	Input 3
I4	Input 4
0V	Common
0V	Common
I5	Input 5
I6	Input 6
I7	Input 7
I8	Input 8
0V	Common
0V	Common



Digital Outputs

8 Outputs	
SIGNAL	DESCRIPTION
Q1	Output 1
Q2	Output 2
Q3	Output 3
Q4	Output 4
V1	V+ Input for Outputs 1-4
0V	Common
Q5	Output 5
Q6	Output 6
Q7	Output 7
Q8	Output 8
V2	V+ Input for Output 5-8
0V	Common



2 DIAGNOSTIC LED INDICATORS

Status	OK LED
OFF	Power Up
ON	IO Module Running Normally
BLINK (1Hz)	On of the following errors: a. Communication between IO Base and IO Module (IO ERROR) b. No Configuration c. OCS idle mode

3 SAFETY

3.1 - WARNINGS



WARNING - If the equipment is used in a manner not specified by Horner APG, the protection provided by the equipment may be impaired.

WARNING - EXPLOSION HAZARD - Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous

AVERTISSEMENT - RISQUE D'EXPLOSION -Ne débranchez pas l'équipement tant que l'alimentation n'a pas été coupée ou que la zone n'est pas dangereuse.

WARNING - EXPLOSION HAZARD - Substitution of any component may impair suitability for Class I, Division 2

AVERTISSEMENT - RISQUE D'EXPLOSION -Le remplacement de tout composant peut nuire à la compatibilité avec la classe I, division 2

WARNING - POSSIBLE EQUIPMENT DAMAGE - Remove power from the I/O Base and any peripheral equipment connected to this local system before adding or replacing this or any module.

AVERTISSEMENT - DOMMAGES POSSIBLES À L'ÉQUIPEMENT - Coupez l'alimentation de la base d'E / S et de tout équipement périphérique connecté à ce système local avant d'ajouter ou de remplacer ce module ou tout autre module.



WARNING - Inputs and Outputs should be connected to the same voltage levels (all connect to 24V supply sources)

WARNING - Digital Outputs are non-isolated and considered hazardous live.

WARNING - Loads for outputs require a Class 2 or Limited Power Source from a UL Listed power supply.

3.2 - SAFETY

- All applicable codes and standards should be followed in the installation of this product.
- Shielded, twisted-pair wiring should be used for best performance.
- Shields should be grounded at one end only, preferably at the end providing the best noise shunting.
- Use the following wire type or equivalent: Belden 8441.

4 PART NUMBER

HE959DIQ616

5 TECHNICAL SUPPORT

For assistance and manual updates, contact Technical Support at the following locations:

North America

(317) 916-4274
www.hornerautomation.com
techspt@heapg.com

Europe

(+) 353-21-4321-266
www.hornerautomation.eu
technical.support@horner-apg.com