OCS-I/O - HE959ADC270

8 Analog Inputs: 0-20mA, 4-20mA, and 0-10V

1   TECHNICAL SPECIFICATIONS

1.1 General Specifications

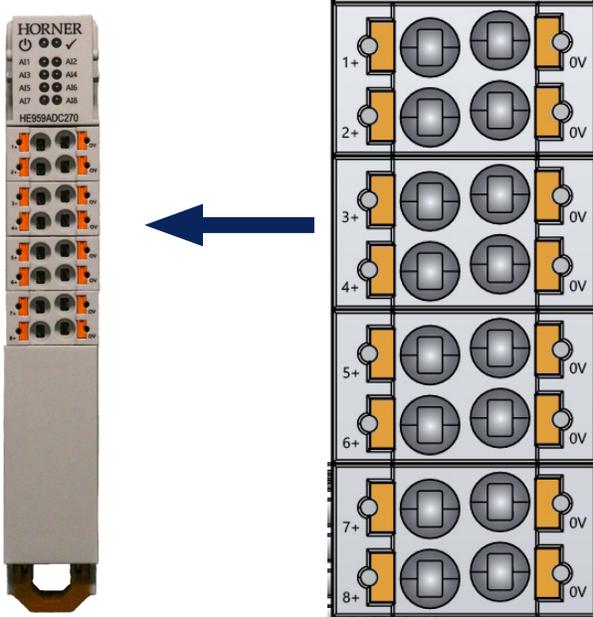|	
Required Power (Steady State)	<130mA @ 5V; <26mA @ 24V
Analog Inputs	8
Port Wiring	16-24 AWG/0.2-1.4mm²
Operating Air Temperature	-40°C (-40°F) to 60°C (140°F)
Storage Temperature	-40°C (-40°F) to 85°C (185°F)
Weight	3.10 OZ.
Relative Humidity	5-95% non-condensing
Dimensions	76.5mm x 124.5mm x 19mm; 3" x 4.9" x 0.75"
Certifications (UL/CE)	North America: https://hornerautomation.com/certifications/ Europe: https://www.hornerautomation.eu/support/certifications-2

1.2 Analog Inputs

Number of Channels	8
Input Ranges	0-20mA, 4-20mA, 0-10V
Safe Input Voltage Range	+/- 30 VDC
Nominal Resolution	16 Bit
%AI Full Scale	0-32,000
Input Impedence	Current Input Impedance 100Ω Voltage Input Impedance 110kΩ
Galvonic Isolation	None
Maximum Input Voltage	30 VDC

Cscape Configuration:
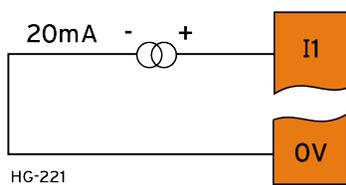- See MAN1175 for the HE959CNX116.
- See MAN1400 for HE959CNX100.

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2 WIRING

Use 75°C copper conductors only.

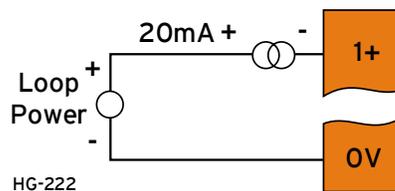| SIGNAL	Label	SIGNAL	LABEL
1+	Input 1+	0V	Common
2+	Input 2+	0V	Common
3+	Input 3+	0V	Common
4+	Input 4+	0V	Common
5+	Input 5+	0V	Common
6+	Input 6+	0V	Common
7+	Input 7+	0V	Common
8+	Input 8+	0V	Common

Commons are internally connected, and using a separate common for each input can improve signal integrity.
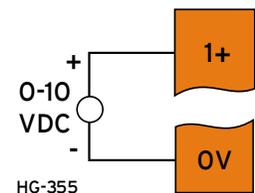
Analog Inputs

20mA Analog In - Not Self Powered

HG-221

20mA Analog In - Self Powered

HG-222

0-10VDC IN

HG-355

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HE959ADC270_DS

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
LED Status for Individual I/O Channels	
AIX	Analog Input X Active*

NOTE: LED will be in OFF state if the channel is disabled from Cscape configuration.

*NOTE:
· LED will be ON during Normal operations.
· Analog Input channel configured as Volts or mA LED will be OFF until the input signal is 0+0.2% of full scale.

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.

3.2 - SAFETY

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

4 PART NUMBER

HE959ADC270

5 TECHNICAL SUPPORT

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

North America
(317) 916-4274
www.hornerautomation.com
techsppt@heapg.com

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

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