MODEL 2:

12 DC In. 6 Relay Out. 4 - 12-bit Analog IN

A4 Analog IN4

OV Common

J2 (Black) Name

Relay 6 COM

Relay 6 NO

Relay 5 COM

Relay 5 NO

Relay 4 COM

Relay 3 COM

Relay 2 COM

Relay 3 NO

Relay 2 NO

Relay 1 COM

HSC4 / IN12

Relay 1 NO

H3 HSC3 / IN11

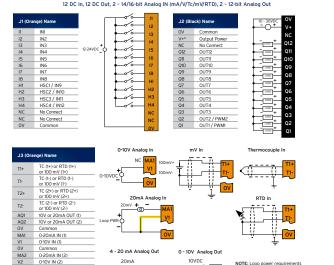
H2 HSC2 / IN10

Relay 4 NO

MODEL 3:

MODEL 4: 12 DC In. 12 DC Out. 2 - 12-bit Analog IN 24 DC In. 16 DC Out. 2 - 12-bit Analog IN

### MODEL 5:

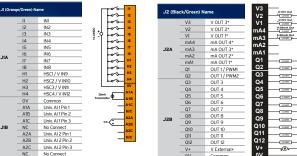


--+

Common

# MODEL 6:

12 DC In, 12 DC Out, 6 - 14/17-bit Analog IN (mA/V/TC/mV/RTD), 4 - 12-bit Analog Out



J3 (Orange/Green) Name

are determined by the transmitter

NOTE: Be sure to wire OV to V1 as showns

specification.

for proper operation

NC No Connection

A3A Univ. Al 3 Pin 1

A3B Univ. Al 3 Pin 2

A3C Univ. Al 3 Pin 3

A4B Univ. Al 4 Pin 2

ASA Univ. Al 5 Pin 1

ASB Univ. Al 5 Pin 2

A6B Univ. Al 6 Pin 2

A6C Univ. Al 6 Pin 3

Common V4 V OUT 4\*

No Connection

Univ. Al 4 Pin 3

No Connection

Univ. Al 5 Pin 3

No Connection

Univ. Al 6 Pin 1

Univ. Al 4 Pin 1

NOTE: \* Both mA & V outputs are active for each output channel, however, only the configured output type is calibrated

Power Wiring Connector

PIN SIGNAL

Frame Ground

DC- Power Supply Common

(maximum 4 channels simultaneously)

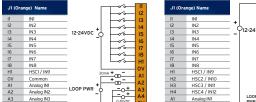
## ALL MODELS:

Primary Power Range: 10-30VDC

DESCRIPTION

Ground

Power Supply Voltage



230VAC - C6 or 25VDC + C000 R6

or 25VDC +

230VAC \_ \_ \_ \_

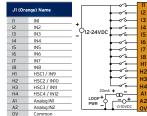
or 25VDC +

230VAC \_\_\_\_

230 VAC \_ \_ \_ \_

25VDC + LOAD

or 25VDC + LOAD



J2 (Black) Name

Common

No Connect

V+

OUT 11

OUT 9

OUT 8

OUT 6

OUT 5

OUT 4

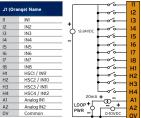
OUT 3

Q2 OUT2/PWM2

Q1 OUT 1 / PWM1

OUT 7

Q10 OUT 10



1	J2 (B
3	OV
3 4 5 6	V+
	NC
,	Q12
b	Q11
7	Q10
3	Q9
1	Q8
	Q7
2	Q6
3	Q5
4	Q4
1	Q3
2	Q2

Common

OUT 13

OUT 12

OUT 11

OUT 10

OUT 9

OUT 7

OUT 6

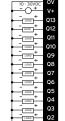
OUT 5

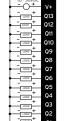
OUT 4

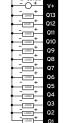
OUT 3

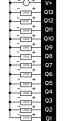
OUT 2 / PWM 2

OUT 1 / PWM 1

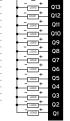


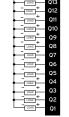


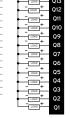


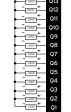


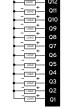








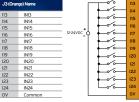








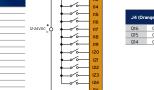












#### Precautions

All applicable codes and standards need to be followed in the installation of this product. Adhere to the following safety precautions whenever any type of connection is made to the module:

- Connect the safety (earth) ground on the power connector first before making any other connections
- When connecting to the electric circuits or pulse-initiating equipment, open their related breakers
- Do NOT make connection to live power lines.
- Make connections to the module first; then connect to the circuit to be monitored.
- Route power wires in a save manner in accordance with good practice and local codes.
- Wear proper personal protective equipment including safety glasses and insulted gloves
- when making connections to power circuits.
- Ensure hands, shoes, and floor are dry before making any connection to a power line. Make sure the unit is turned OFF before making connection to terminals.
- Make sure all circuits are de-energized before making connections. 10. Before each use, inspect all cables for breaks or cracks in the insulation, Replace
- immediately if defective
- Use copper conductors in Field Wiring only, 60/75° C.
- 12. Do not disconnect while circuit is live unless area is known to be non-hazardous 13. Do not remove or replace jumpers or connectors while circuit is live unless the area is known
- to be free of ignitable concentrations of flammable gases or vapors.
- 14. EXPLOSION HAZARD substitution of components may impair suitability for Class I, Division 2. 15. Use caution when making connections to the controller to protect against static discharge. Special care must be taken when replacing the battery or inserting or adjusting I/O or
- communication hoards 16. Use caution when connecting controllers to PCs via serial or USB. PCs and especially laptops may use "floating power supplies" what are ungrounded. This could cause a voltage potential between the laptop and controller. Make sure the controller and laptop are grounded for
- maximum protection. 17. Failure to follow these guidelines can damage the controller and/or controller.

#### Hazardous Location Notice

Power, input and output (I/O) wiring must be in accordance with Class 1, Division 2 wiring methods [Article 501-4(b) of the National Electrical Code, NFPA 701 for installations in the U.S. or as specified in Section 18-1.12 of the Canadian Electrical Code for installations within Canada and in accordance with the authority having jurisdiction.

- THIS EQUIPMENT IS SUITABLE FOR USE IN CLASS I, DIVISION 2, GROUPS A B C D or NON-HAZARDOUS LOCATIONS ONLY
- WARNING EXPLOSION HAZARD SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS L DIVISION 2
- AVERTISSEMENT RISQUE D'EXPLOSION LA SUBSTITUTION DECOMPOSANTS PEUT RENDRECE MATE RIEL INACCEPTABLE POUR LES EMPLACEMENTS DE CLASSE I, DIVISION 2 WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS AND FREE OF IGNITABLE
  - CONCENTRATIONS ATTENTION - RISQUE D'EXPLOSION - NE DECONNECTEZ PAS L'EQUIPEMENT A MOINS DE L'AVOIR MIS HORS TENSION OU QUE LA ZONE EST CONNUE NON-DANGEUREUSE ET NE

# FCC Compliance

This device complies with part 15 of the FCC Rules, Operation is subject to the following

two conditions:

CONTIENT PAS DE CONCENTRA TIONS INFLAMMABLES.

This device may not cause harmful interference This device must accept any interference received, including interference that may cause undesired operation

# Technical Support

For futher details, please refer to the Datasheets, MAN1143 - MAN1148, For assistance and manual updates, contact Technical Support at the following locations:

North America +1 (317) 916-4274 www.hornerautomation.com techsppt@heapg.com

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

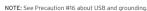
### Port Connectors / Panel Cut-Out



3.78" (96mm) square (front bezel)



- Touchscreen
- 2. Function Kevs
- 4. Configuration Switches 5 LISB Mini-B Port
- 7 CAN Port 3. High Canacity microSD Slot 8. Ethernet LAN Port
- 6 Wide-Range DC Power 9. USB A Port 10 RS232/RS485 Serial Port













MAN1136-03-EN

# XL4 OCS CONTROLLERS

### General Specifications

Required Power (Steady State)	160mA @ 24VDC (1.6W) 370mA @ 10VDC (3.7W)	
Inrush Current	2A for <1 ms @ 24VDC DC Switched	
Primary Pwr. Range	10-30VDC	
Real Time Clock	Battery Backed	
Clock Accuracy	+/- 20 ppm maximum at 25°C (+/- 1 min/month)	
Relative Humidity	5 to 95% , Non-Condensing	
Operating Temp.	-10°C to +60°C	
Storage Temp.	-20°C to +60°C	
Weight	12 oz/340g (without I/O)	
Altitude	Up to 2000m	
Related Pollution Degree	Evaluated for Pollution Degree 2 Rating	
Certifications (UL/CE)	USA: https://hornerautomation.com/certifications/ Europe: http://www.horner-apg.com/en/support/certification.aspx	