

3 Distributed I/O Module Instructions

The equipment listed in this chapter is certified for use in certain specified hazardous (classified) locations. Follow all applicable instructions in [Conditions of Safe Use](#) and within the specific section for each piece of equipment for proper use of this equipment in these locations.

3.1 PAIC and YAIC Analog I/O Modules

The following I/O pack and terminal board combinations are approved for use in hazardous locations:

- Mark VIe Analog I/O pack **IS220PAICH1A**
with terminal boards (accessories) **IS200STAIH1A**, **IS200STAIH2A**, or **IS200TBAIH1C**
- Mark VIe Analog I/O pack **IS220PAICH1B**
with terminal boards (accessories) **IS200STAIH1A**, **IS200STAIH2A**, or **IS200TBAIH1C**
- Mark VIeS Safety Analog I/O pack **IS220YAICS1A**
with terminal boards (accessories) **IS200STAIS1A**, **IS400STAIS1A**, **IS200STAIS2A**, **IS400STAIS2A**, **IS200TBAIS1C**, or **IS400TBAIS1C**
- Mark VIeS Safety Analog I/O pack **ISx2yYAICS1B** (where x = 2 or 4 and y = 0 or 1)
with terminal boards (accessories) **ISx0ySTAIS1A**, **ISx0ySTAIS2A**, or **ISx0yTBAIS1C**

3.1.1 Electrical Ratings

Item	Min	Nominal	Max	Units
<i>Power Supply</i>				
Voltage	PAICH1B / YAICS1B: 22.5 PAICH1A / YAICS1A: 27.4	PAICH1B / YAICS1B: 24.0/28.0 PAICH1A / YAICS1A: 28.0	28.6	V dc
Current	—	—	0.49	A dc
<i>Analog Inputs (1-8)</i>				
Voltage	-10	—	10	V dc
Current	0	—	20	mA dc
<i>Analog Inputs (9-10)</i>				
Current	-5	—	5	V dc
Current	-1	—	20	mA dc
<i>Analog Outputs</i>				
Voltage	0	—	16.3	V dc
Current	0	—	20	mA dc
<i>Analog Transmitter Power</i>				
Voltage	22.8	24.0	25.2	V dc
Current	—	—	21	mA dc

3.1.2 Field Wire Connections

Terminal Board	Terminal Block Type
ISx00STAI_1A, ISx00STAI_2A	Refer to the table Euro Style Box-type Terminal Blocks for wire size and screw torques.
ISx00TBAI_1C	Refer to the table Barrier-type Terminal Blocks for wire size and screw torques.

3.5 PCNO CANopen® Master Gateway Module

The following I/O pack and terminal board combinations are approved for use in hazardous locations:

- CANopen I/O pack **IS220PCNOH1A** or **IS220PCNOH1B** with accessory ID board **IS200SPIDG1A**

3.5.1 Electrical Ratings

Power Supply

Item	Min	Nominal	Max	Units
Voltage	27.4	28.0	28.6	V dc
Current	—	—	0.17	A dc

3.6 PDIA and YDIA Discrete Input Modules

The following I/O pack and terminal board combinations are approved for use in hazardous locations:

- Mark VIe Discrete I/O pack **IS220PDIAH1A**
with terminal boards (accessories) **IS200STCIH1A**, **IS200STCIH2A**, **IS200STCIH8A**, **IS200TBCIH2C**, or **IS200TBCIH4C**
- Mark VIe Discrete I/O pack **IS220PDIAH1B**
with terminal boards (accessories) **IS200STCIH1A**, **IS200STCIH2A**, **IS200STCIH8A**, **IS200TBCIH2C**, **IS400TBCIH2C**, **IS200TBCIH4C**, **IS400STCIH1A**, **IS400STCIH2A**, or **IS400STCIH8A**
- Coated Mark VIe Discrete I/O pack **IS221PDIAH1B**
with coated terminal boards (accessories) **IS201STCIH1A**, **IS201STCIH2A**, **IS201STCIH8A**, **IS201TBCIH2C**, or **IS201TBCIH4C**
- Mark VIeS Safety Discrete I/O pack **IS220YDIAS1A**
with terminal boards (accessories) **IS200STCIS1A**, **IS200STCIS2A**, **IS400STCIS1A**, **IS400STCIS2A**, **IS200TBCIS2C**, or **IS400TBCIS2C**
- Mark VIeS Safety Discrete I/O pack **ISx2yYDIAS1B** (where x = 2 or 4 and y = 0 or 1)
with terminal boards (accessories) **ISx0ySTCIS1A**, **ISx0ySTCIS2A**, **IS40ySTCIS4A**, **ISx0yTBCIS2C**, or **IS40yTBCIS3C**