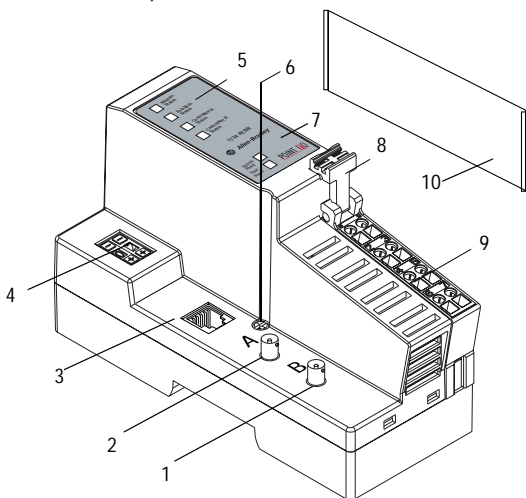




Installation Instructions

POINT I/O ControlNet Adapter

(Cat. No. 1734-ACNR)



43247

| | Description | | Description |
|---|---|----|---|
| 1 | Coaxial Channel B | 6 | DIN Rail Locking Screw (orange) |
| 2 | Coaxial Channel A | 7 | System Power and Field Power Indicators |
| 3 | Network Access Port (NAP) | 8 | RTB Removal Handle |
| 4 | Node Address Thumbwheel | 9 | Removable Terminal Block (RTB) |
| 5 | Status Indicators - Adapter, PointBus, ControlNet Channel A, and ControlNet Channel B | 10 | Safety End Cap |

Important User Information

Because of the variety of uses for the products described in this publication, those responsible for the application and use of these products must satisfy themselves that all necessary steps have been taken to assure that each application and use meets all performance and safety requirements, including any applicable laws, regulations, codes and standards. In no event will Rockwell Automation be responsible or liable for indirect or consequential damage resulting from the use or application of these products.

Any illustrations, charts, sample programs, and layout examples shown in this publication are intended solely for purposes of example. Since there are many variables and requirements associated with any particular installation, Rockwell Automation does not assume responsibility or liability (to include intellectual property liability) for actual use based upon the examples shown in this publication.

Allen-Bradley publication SGI-1.1, *Safety Guidelines for the Application, Installation and Maintenance of Solid-State Control* (available from your local Rockwell Automation office), describes some important differences between solid-state equipment and electromechanical devices that should be taken into consideration when applying products such as those described in this publication.

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Throughout this publication, notes may be used to make you aware of safety considerations. The following annotations and their accompanying statements help you to identify a potential hazard, avoid a potential hazard, and recognize the consequences of a potential hazard:

WARNING



Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.

ATTENTION



Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss.

IMPORTANT

Identifies information that is critical for successful application and understanding of the product.

Environment and Enclosure

This equipment is intended for use in a Pollution Degree 2 industrial environment, in overvoltage Category II applications (as defined in IEC publication 60664-1), at altitudes up to 2000 meters without derating.

This equipment is considered Group 1, Class A industrial equipment according to IEC/CISPR Publication 11. Without appropriate precautions, there may be potential difficulties ensuring electromagnetic compatibility in other environments due to conducted as well as radiated disturbance.

ATTENTION



This equipment is supplied as "open type" equipment. It must be mounted within an enclosure that is suitably designed for those specific environmental conditions that will be present and appropriately designed to prevent personal injury resulting from accessibility to live parts. The interior of the enclosure must be accessible only by the use of a tool. Subsequent sections of this publication may contain additional information regarding specific enclosure type ratings that are required to comply with certain product safety certifications.

See NEMA Standards publication 250 and IEC publication 60529, as applicable, for explanations of the degrees of protection provided by different types of enclosure. Also, see the appropriate sections in this publication, as well as the Allen-Bradley publication 1770-4.1 ("Industrial Automation Wiring and Grounding Guidelines"), for additional installation requirements pertaining to this equipment.

ATTENTION

POINT I/O is grounded through the DIN rail to chassis ground. Use zinc-plated, yellow-chromated steel DIN rail to assure proper grounding. Using other DIN rail materials (e.g. aluminum, plastic, etc.) which can corrode, oxidize or are poor conductors, can result in improper or intermittent platform grounding.

WARNING

When you connect or disconnect the Removable Terminal Block (RTB) with field side power applied, an electrical arc can occur. This could cause an explosion in hazardous location installations.

Be sure that power is removed or the area is nonhazardous before proceeding.

Installing the ControlNet Adapter

ATTENTION



You must use Series C Point I/O modules with the 1734-ACNR. Series A and B Point I/O modules will not work with the 1734-ACNR.

To install the adapter on the DIN rail prior to installing other base units, proceed as follows.

1. Position the adapter vertically above the DIN rail.
 2. Press down firmly to install the adapter on the DIN rail. The locking mechanism will lock the adapter to the DIN rail.
 3. Set the node address on the node address thumbwheel.
-

WARNING



If you connect or disconnect the ControlNet cable with power applied to this module or any device on the network, an electrical arc can occur. This could cause an explosion in hazardous location installations.

Be sure that power is removed or the area is nonhazardous before proceeding.

4. Remove the safety end cap by sliding it up. This exposes the backplane and power interconnections.
-

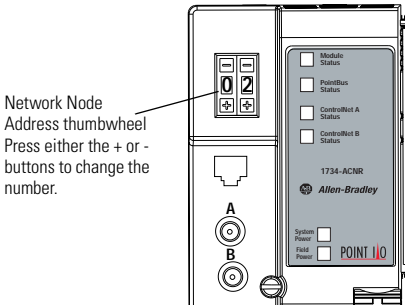
ATTENTION



Do not discard the end cap. Use this end cap to cover the exposed interconnections on the last mounting base on the DIN rail. Failure to do so could result in equipment damage or injury from electric shock.

Setting the Node Address

Set the node address using the 2-position thumbwheel switch. Valid settings range from 01 to 99. Press either the + or - buttons to change the number.



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Installing a Replacement ControlNet Adapter to an Existing System

ATTENTION

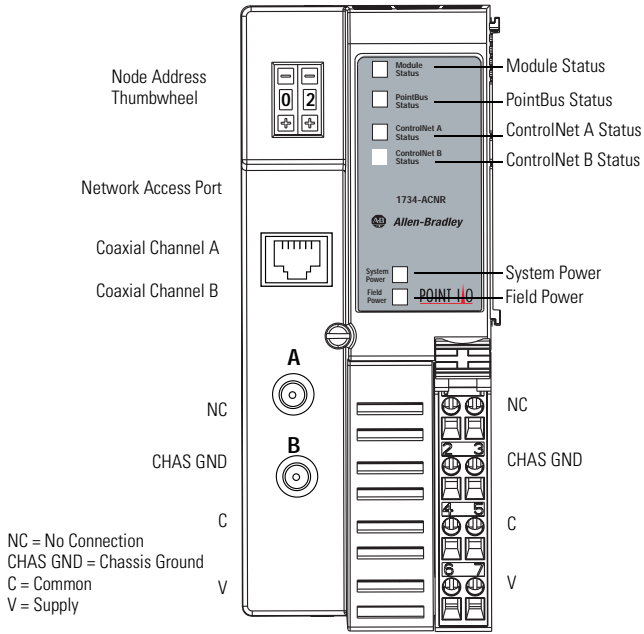


You must use Series C Point I/O modules with the 1734-ACNR. Series A and B Point I/O modules will not work with the 1734-ACNR.

1. Remove the existing adapter from the DIN rail as follows:
 - a. Disconnect the ControlNet cable from the adapter.
 - b. Pull up on the RTB removal handle to remove the terminal block.
 - c. Remove the adjacent module from its base.
 - d. Use a small bladed screwdriver to rotate the DIN rail locking screw to a vertical position. This releases the locking mechanism.
 - e. Lift straight up to remove.

2. Remove the safety end cap on the replacement adapter by sliding it up. This exposes the backplane and power connections.
3. Position the replacement adapter vertically above the DIN rail. (Make certain the DIN rail lock is in the horizontal position.) Slide the adapter down, allowing the interlocking side pieces to engage the adjacent module.
4. Press firmly to seat the adapter on the DIN rail. The adapter locking mechanism will snap into place.
5. Set the node address on the node address thumbwheel.
6. Insert the end opposite the handle into the base unit. This end has a curved section that engages with the wiring base.
7. Rotate the terminal block into the wiring base until it locks itself into place.
8. Replace the adjacent module in its base.
9. Connect the ControlNet cable to the adapter.

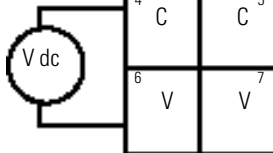
Wiring the ControlNet Adapter



43264

12/24V dc

Do not connect 120/240V ac power to this supply.

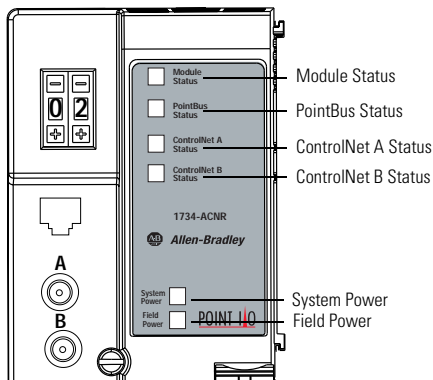


30880

This dc supply will be connected to the internal power bus.

NC = No Connection C = Common
 CHAS GND = Chassis Ground V = Supply

Troubleshooting with the Indicators





43265

| Indication | Probable Cause |
|---------------------|---|
| Field Power | |
| Off | Not active; field power is off |
| Green | Power on; 24V present |
| System Power | |
| Off | Not active; field power is off or dc-dc converter problem |
| Green | System power on; dc-dc converter active (5V) |

| Indication | Probable Cause |
|-----------------------|---|
| Module Status | |
| Off | No power applied to device |
| Alternating Red/Green | LED powerup test (module self-test) |
| Flashing Red | Recoverable fault has occurred: <ul style="list-style-type: none"> • Firmware (NVS) update • MAC ID changed • CPU load exceeded |
| Solid Red | Unrecoverable fault has occurred: <ul style="list-style-type: none"> • self test failure (checksum failure at powerup, ramtest failure at powerup) • firmware fatal error |
| Flashing Green | Waiting for connection or ControlNet cable break |
| Solid Green | Module is operating correctly (normal mode) |

| Indication | Probable Cause |
|------------------------------|---|
| ControlNet A/B Status | |
| Viewed Together | |
| Both Steady Off | Reset, no power or entire network interface deactivated |
| Alternating Red/Green | Self test mode |
| Alternating Red/Off | Bad/invalid node configuration (such as duplicate MAC ID) |
| Both Steady Red | Failed link interface |
| Viewed Individually | |
| Steady Off | Channel disabled or channel not supported |
| Flashing Red/Green | Invalid link configuration |
| Flashing Red/Off | Severe Link error - link fault or no MAC frames received |
| Flashing Green/Off | Temporary channel error or listen-only |
| Steady Green | Normal operation - MAC frames are being received without detected errors |
| PointBus Status | |
| Off | Device not powered - check module status indicator |
| Alternating Red/Green | LED powerup test |
| Flashing Red | Recoverable fault has occurred: <ul style="list-style-type: none"> • at power up the number of expected modules does not equal the number of modules present • a module is missing • node fault (I/O connection timeout) |
| Red | Unrecoverable fault has occurred: <ul style="list-style-type: none"> • The adapter is bus off • The adapter has failed its duplicate MAC ID check |
| Flashing Green | Adapter on-line with no connections established <ul style="list-style-type: none"> • adapter chassis size has not been configured • controller in program/idle mode • ControlNet cable break |
| Green | Adapter on-line with connections established (normal operation, in run mode) |

Safety Approvals

| | | | |
|--|--|---|---|
| <p>The following information applies when operating this equipment in hazardous locations:</p> <p>Products marked "CL I, DIV 2, GP A, B, C, D" are suitable for use in Class I Division 2 Groups A, B, C, D, Hazardous Locations and nonhazardous locations only. Each product is supplied with markings on the rating nameplate indicating the hazardous location temperature code. When combining products within a system, the most adverse temperature code (lowest "T" number) may be used to help determine the overall temperature code of the system. Combinations of equipment in your system are subject to investigation by the local Authority Having Jurisdiction at the time of installation.</p> | <p>Informations sur l'utilisation de cet équipement en environnements dangereux :</p> <p>Les produits marqués "CL I, DIV 2, GP A, B, C, D" ne conviennent qu'à une utilisation en environnements de Classe I Division 2 Groupes A, B, C, D dangereux et non dangereux. Chaque produit est livré avec des marquages sur sa plaque d'identification qui indiquent le code de température pour les environnements dangereux. Lorsque plusieurs produits sont combinés dans un système, le code de température le plus défavorable (code de température le plus faible) peut être utilisé pour déterminer le code de température global du système. Les combinaisons d'équipements dans le système sont sujettes à inspection par les autorités locales qualifiées au moment de l'installation.</p> | | |
| <p>WARNING</p>  | <p>EXPLOSION HAZARD</p> <ul style="list-style-type: none"> Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous. Do not disconnect connections to this equipment unless power has been removed or the area is known to be nonhazardous. Secure any external connections that mate to this equipment by using screws, sliding latches, threaded connectors, or other means provided with this product. Substitution of components may impair suitability for Class I, Division 2. If this product contains batteries, they must only be changed in an area known to be nonhazardous. | <p>AVERTISSEMENT</p>  | <p>RISQUE D'EXPLOSION</p> <ul style="list-style-type: none"> Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher l'équipement. Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher les connecteurs. Fixer tous les connecteurs externes reliés à cet équipement à l'aide de vis, loquets coulissants, connecteurs filetés ou autres moyens fournis avec ce produit. La substitution de composants peut rendre cet équipement inadapté à une utilisation en environnement de Classe I, Division 2. S'assurer que l'environnement est classé non dangereux avant de changer les piles. |

Specifications

Specifications - 1734-ACNR ControlNet Adapter

| Expansion I/O Capacity | <ul style="list-style-type: none"> • Maximum of 63 modules • Maximum of 5 Rack Optimized connections (for digital modules only) • Maximum of 25 Direct connections • 1734-ACNR backplane current output = 1.0A maximum. See the list below for backplane current consumption for each Point I/O catalog number and the current consumption for each of the Point modules connected to the 1734-ACNR. Verify that it is below 1.0A. • Backplane current can be extended beyond 1.0A with a 1734-EP24DC Backplane Extension Power Supply. The 1734-EP24DC can supply up to an additional 1.3A of backplane current. • Multiple 1734-EP24DC modules can be used to reach the maximum of 63 modules. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|----------|-------------------------------|----------|------|----------|------|----------|------|----------|------|-----------|------|------------|------|-----------|------|-----------|------|-----------|------|----------|------|----------|-------|-----------|------|-----------|------|-----------|------|-----------|------|----------|------|----------|------|----------|------|----------|-------|----------|-------|----------|-------|-----------|-------|----------|-------|-------------|------|------------|-------|-------------|-------|
| | <table border="1"> <thead> <tr> <th>Cat. No.</th> <th>PointBus Current Requirements</th> </tr> </thead> <tbody> <tr><td>1734-IB2</td><td>75mA</td></tr> <tr><td>1734-IB4</td><td>75mA</td></tr> <tr><td>1734-IV2</td><td>75mA</td></tr> <tr><td>1734-IV4</td><td>75mA</td></tr> <tr><td>1734-OB2E</td><td>75mA</td></tr> <tr><td>1734-OB2EP</td><td>75mA</td></tr> <tr><td>1734-OB4E</td><td>75mA</td></tr> <tr><td>1734-OV2E</td><td>75mA</td></tr> <tr><td>1734-OV4E</td><td>75mA</td></tr> <tr><td>1734-OW2</td><td>80mA</td></tr> <tr><td>1734-OX2</td><td>100mA</td></tr> <tr><td>1734-IE2C</td><td>75mA</td></tr> <tr><td>1734-OE2C</td><td>75mA</td></tr> <tr><td>1734-IE2V</td><td>75mA</td></tr> <tr><td>1734-OE2V</td><td>75mA</td></tr> <tr><td>1734-IA2</td><td>75mA</td></tr> <tr><td>1734-IM2</td><td>75mA</td></tr> <tr><td>1734-OA2</td><td>75mA</td></tr> <tr><td>1734-IJ2</td><td>160mA</td></tr> <tr><td>1734-IK2</td><td>160mA</td></tr> <tr><td>1734-IR2</td><td>220mA</td></tr> <tr><td>1734-IT2I</td><td>175mA</td></tr> <tr><td>1734-SSI</td><td>110mA</td></tr> <tr><td>1734-232ASC</td><td>75mA</td></tr> <tr><td>1734-VHSC5</td><td>180mA</td></tr> <tr><td>1734-VHSC24</td><td>180mA</td></tr> </tbody> </table> | Cat. No. | PointBus Current Requirements | 1734-IB2 | 75mA | 1734-IB4 | 75mA | 1734-IV2 | 75mA | 1734-IV4 | 75mA | 1734-OB2E | 75mA | 1734-OB2EP | 75mA | 1734-OB4E | 75mA | 1734-OV2E | 75mA | 1734-OV4E | 75mA | 1734-OW2 | 80mA | 1734-OX2 | 100mA | 1734-IE2C | 75mA | 1734-OE2C | 75mA | 1734-IE2V | 75mA | 1734-OE2V | 75mA | 1734-IA2 | 75mA | 1734-IM2 | 75mA | 1734-OA2 | 75mA | 1734-IJ2 | 160mA | 1734-IK2 | 160mA | 1734-IR2 | 220mA | 1734-IT2I | 175mA | 1734-SSI | 110mA | 1734-232ASC | 75mA | 1734-VHSC5 | 180mA | 1734-VHSC24 | 180mA |
| Cat. No. | PointBus Current Requirements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-IB2 | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-IB4 | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-IV2 | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-IV4 | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-OB2E | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-OB2EP | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-OB4E | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-OV2E | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-OV4E | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-OW2 | 80mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-OX2 | 100mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-IE2C | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-OE2C | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-IE2V | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-OE2V | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-IA2 | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-IM2 | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-OA2 | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-IJ2 | 160mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-IK2 | 160mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-IR2 | 220mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-IT2I | 175mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-SSI | 110mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-232ASC | 75mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-VHSC5 | 180mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1734-VHSC24 | 180mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ControlNet Communication Rate | 5Mbits/s (fixed value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Module Location | Starter module - left side of the 1734 system | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power Supply Specifications | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input Voltage Rating | 24V dc nominal 10-28.8V dc range | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field Side Power Requirements | 24V dc (+20% = 28.8V dc maximum) @ 425mA maximum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inrush Current | 6A maximum for 10ms | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

14 POINT I/O ControlNet Adapter

| | |
|--|--|
| Interruption | Output voltage will stay within specifications when input drops out for 10ms at 10V with maximum load. |
| General Specifications | |
| Indicators | 4 red/green status indicators Adapter status PointBus status ControlNet A status ControlNet B status 2 green power supply status indicators: System Power (PointBus 5V power) Field Power (24V from field supply) |
| Power Consumption | 10.2W maximum @ 28.8V dc |
| Power Dissipation | 5.0W maximum @ 28.8V |
| PointBus Output Current | 1A maximum @ 5V dc $\pm 5\%$ (4.75 - 5.25) |
| Input Overvoltage Protection | Reverse polarity protected |
| Thermal Dissipation | 16.9 BTU/hr maximum @ 28.8V dc |
| Isolation Voltage | Tested to withstand 750Vac for 60s |
| Field Power Bus Nominal Voltage Supply Voltage Range Supply Current | 24V dc 10-28.8V dc range, 10A maximum |
| Dimensions Inches (Millimeters) | 3.0H x 2.16W x 5.25L (76.2H x 54.9W x 133.4L) |
| Environmental Conditions | |
| Operational Temperature | IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -20 to 55°C (-4 to 131°F) |
| Storage Temperature | IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock): -40 to 85°C (-40 to 185°F) |
| Relative Humidity | IEC 60068-2-30 (Test Db, Unpackaged Nonoperating Damp Heat): 5 to 95% noncondensing |
| Shock | IEC 60068-2-27 (Test Ea, Unpackaged Shock) |
| Operating | 30g |
| Nonoperating | 50g |
| Vibration | IEC 60068-2-6 (Test Fc, Operating) Tested 5g @ 10-500Hz |
| ESD Immunity | IEC 61000-4-2: 6kV contact discharges 8kV air discharges |

General Specifications (continued)

| | |
|---|--|
| Radiated RF Immunity | IEC 61000-4-3: 10V/m with 1kHz sine-wave 80%AM from 30MHz to 2000MHz 10V/m with 200Hz 50% pulse 100%AM from 900MHz |
| EFT/B Immunity | IEC 61000-4-4: ±4kV at 2.5kHz on power ports ±2kV at 5.0kHz on signal ports |
| Surge Transient Immunity | IEC 61000-4-5: ±1kV line-line(DM) and ±2kV line-earth(CM) on signal ports ±1kV line-line(DM) and ±2kV line-earth(CM) on power ports |
| Conducted RF Immunity | IEC 61000-4-6: 10Vrms with 1kHz sine-wave 80%AM from 150kHz to 80MHz |
| Emissions | CISPR 11 Group 1, Class A |
| Enclosure Type Rating | None (open-style) |
| Power Conductors Wire Size | 14 AWG (2.5mm ²) - 22 AWG (0.25mm ²) solid or stranded wire rated at 75°C or higher |
| ControlNet Conductors Category | 2 ¹ |
| ControlNet Conductors Category | See Publication CNET-IN002A |
| Terminal Base Screw Torque | 7 pound-inches (0.6Nm) |
| Mass | 9.0 oz/255 grams |
| Publications - User Manual | 1734-UM008 |
| Certifications (when product is marked) | c-UL-us UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada CE ² European Union 89/336/EEC EMC Directive, compliant with: EN 61000-6-4; Industrial Emissions EN 50082-2; Industrial Immunity EN 61326; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity C-Tick ² Australian Radiocommunications Act, compliant with: AS/NZS 2064; Industrial Emissions CI ControlNet Int'l conformance tested to ControlNet specifications |

1 Refer to 'ControlNet Cable System Planning and Installation Manual', publication CNET-IN002A when wiring your network. Refer to 'Industrial Automation Wiring and Grounding Guidelines', publication 1770-4.1, for wiring category information and guidelines.

2 See the Product Certification link at www.ab.com for Declarations of Conformity, Certificates, and other certification details.

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