

data SHEET



5-Port BAS Switch *Ethernet Built for Buildings*

An expanding need exists for Ethernet switches in many Building Automation Systems (BAS). The 5-port Plug-and-Play (PnP) BAS Switch is ideal for low-cost 10/100 Mbps Ethernet switching applications where equipment is mounted in shallow-depth control cabinets.

No configuration is needed. Each port automatically sets its data rate and duplex using the Auto-negotiation protocol. Communication matches the capability of the link partner: either 10 Mbps or 100 Mbps and either half- or full-duplex. Each port adapts to either a straight-through or crossover cable using the Auto-MDIX protocol. There is no need to

stock crossover cables for switch-to-switch cabling.

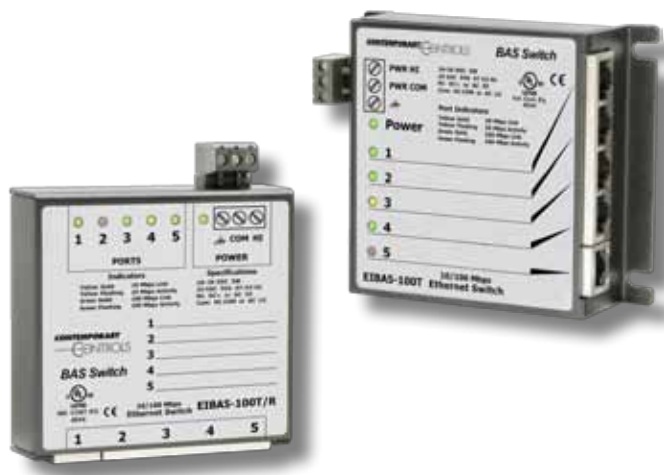
Each unit is housed in a rugged metal enclosure and can be either panel or DIN-rail mounted. A writable label allows listing the location of field devices connected to each port.

The half-wave rectified low-voltage power supply allows sharing 24 VAC/VDC with other devices. LEDs for data rate and activity aid in troubleshooting.

Unlike office-grade Ethernet equipment which is not adaptable to control panels, the BAS Switch makes an Ethernet installation neat, professional, and dependable.

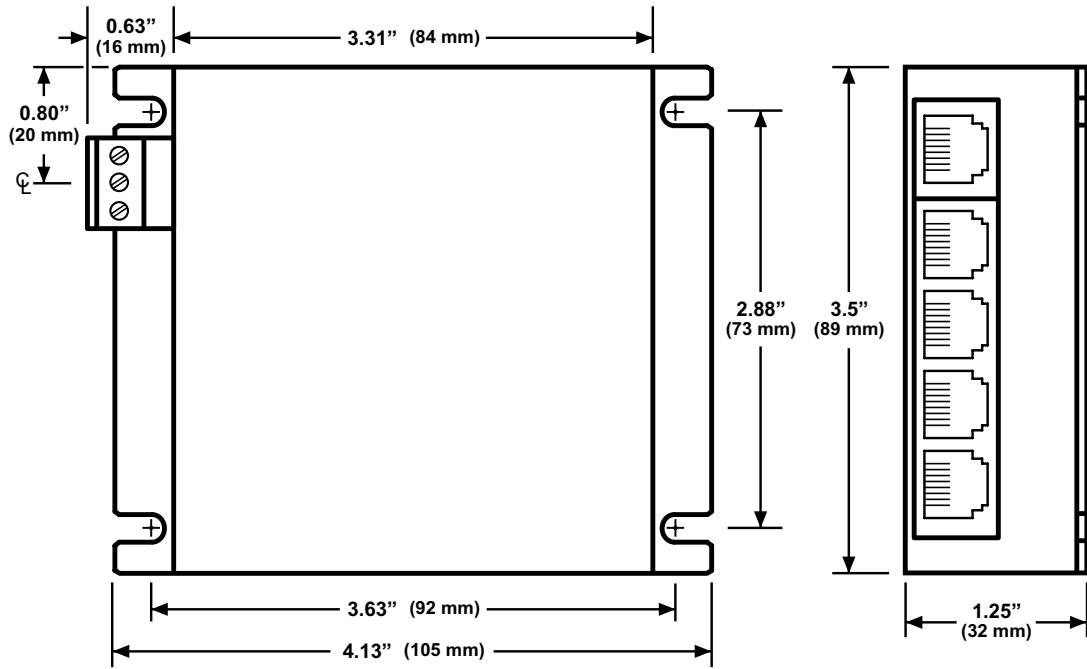
Simple to Install and Use ...

- DIN-rail and panel-mountable versions
- Auto-MDIX and auto-negotiated communication
- Industrial temperatures: 0°C to +60°C
- 10BASE-T/100BASE-TX compliant
- Industrial environment EMC compatible
- UL 508 Listed, Industrial Control Equipment
- CE Mark and RoHS compliant
- Diagnostic LEDs
- 10–36 VDC and 24 VAC (± 10%) 47–63 Hz
- Power through a quick-disconnect terminal strip
- Writable label for listing connected devices

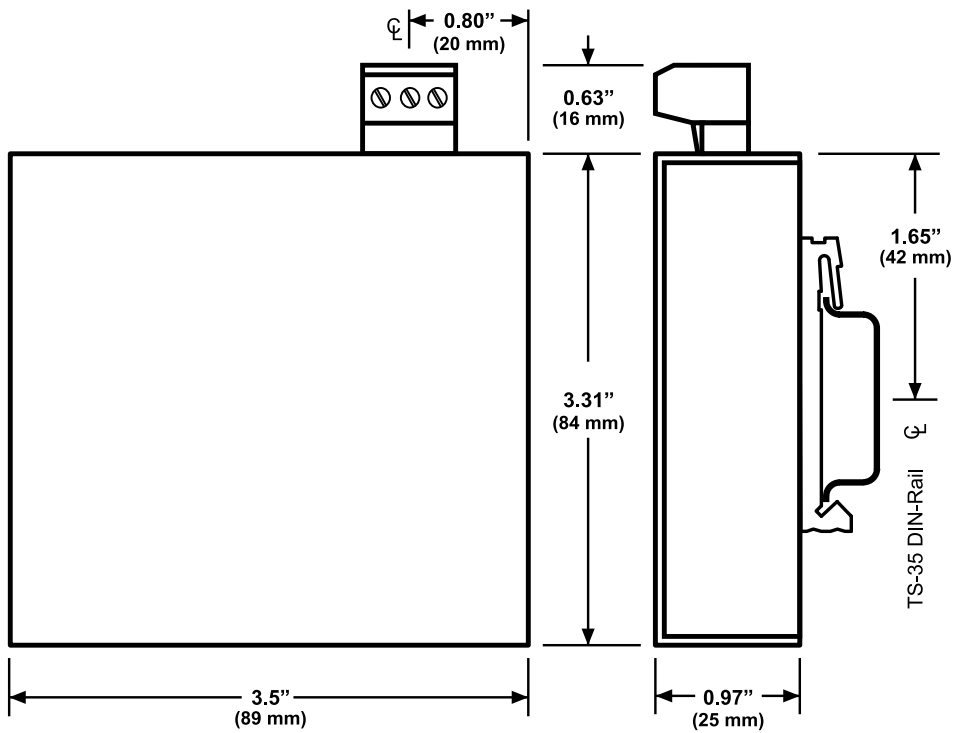


CTRLink®

Mechanical Drawings



EIBA5-100T Panel Mount



EIBA5-100T/R Din-rail Mount

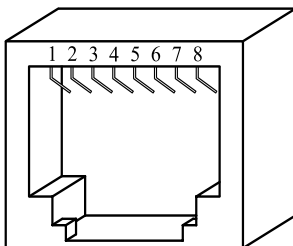
Specifications

Power Requirements	10–36 VDC 3 W or 24 VAC ±10% 6 VA 47–63 Hz						
Operating Temperature	0°C to 60°C						
Storage Temperature	–40°C to 85°C						
Relative Humidity	10–95%, non-condensing						
Protection	IP30						
Mounting	TS-35 DIN-rail						
Shipping Weight	1 lb (0.45 kg)						
Ethernet Communications	IEEE 802.3 10/100 Mbps data rate using RJ-45 connectors, 100 m (max)						
LEDs	<table> <tr> <td>Power</td> <td>Green = power OK</td> </tr> <tr> <td rowspan="3">Port LEDs</td> <td>Green = 100 Mbps communication established</td> </tr> <tr> <td>Yellow = 10 Mbps communication established</td> </tr> <tr> <td>Flashing = data transmissions occurring</td> </tr> </table>	Power	Green = power OK	Port LEDs	Green = 100 Mbps communication established	Yellow = 10 Mbps communication established	Flashing = data transmissions occurring
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	Flashing = data transmissions occurring						
Regulatory Compliance	CE Mark; CFR 47, Part 15 Class A; RoHS; UL 508 Industrial Control Equipment						



RJ-45 Connector Pin Assignments

Pin	Function
1	TD+
2	TD–
3	RD+
4	Not Used
5	Not Used
6	RD–
7	Not Used
8	Not Used

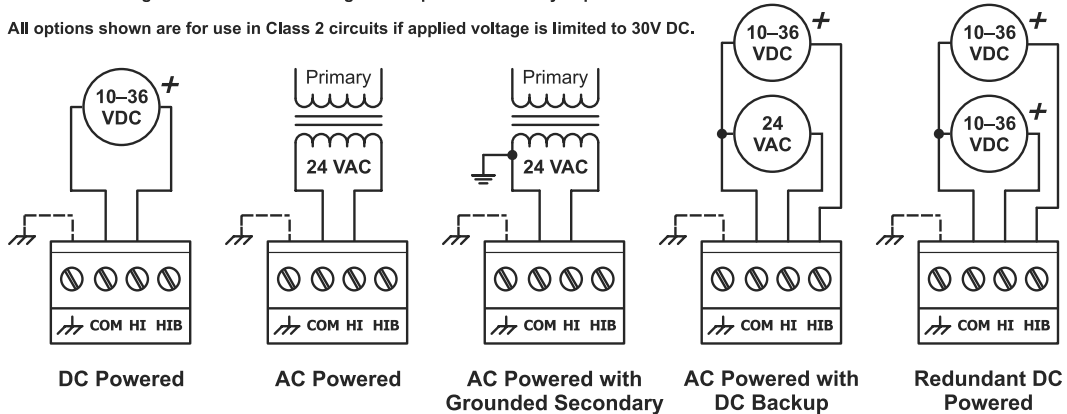


Power Considerations

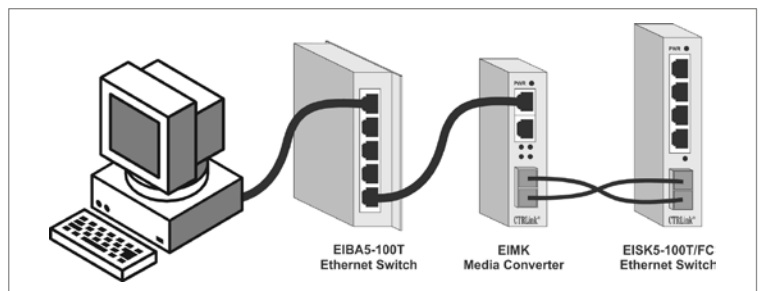
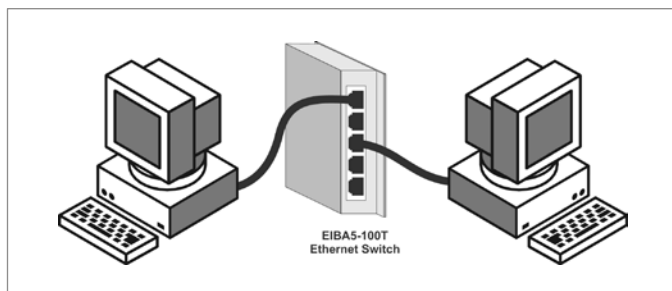
Applied voltage must be in the specified range and deliver a current commensurate with power consumption. The recommended size for solid power conductors is 16–20 AWG; and for stranded conductors use 16–18 AWG. Zero volts (COM) is isolated from chassis (earth). Input connections are reverse-polarity protected.

Input power: 10–36 VDC or 24 VAC \pm 10%, 47–60 Hz.
Connecting chassis to earth or using a backup source is always optional.

All options shown are for use in Class 2 circuits if applied voltage is limited to 30V DC.



Typical Switch Installations



Ordering Information

Model	Description
EIBA5-100T	Five-port 10BASE-T/100BASE-TX switching hub, panel mount
EIBA5-100T/R	Five-port 10BASE-T/100BASE-TX switching hub, DIN-rail mount

Accessories

Model	Description
AI-XFMR	Wall-mount plug-in transformer, 120 VAC input/24 VAC output (nominal values)
AI-XFMR-E	Wall-mount plug-in transformer, 230 VAC input/24 VAC output (nominal values)

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