



Description

The TransData IB6 Series Solid-State Isolation Relay is advanced, all solid-state design providing one, two, or three input channels with two or three output channels. Uniquely designed to ensure maximum flexibility and reliability, the IB6 models, five in all, provide multiple independent and isolated pulse input and output channels. The IB6 series can be used with Form-A, Form-C, or open collector pulse initiators. All five models are available in one of three transformer isolated power input voltage ranges: 120/208, 120/240 or 120/277.

The IB6 provides a pulse distribution point to various devices in remote locations. The IB6 Series Isolation Relay is designed to isolate and protect network components for safety and security. It can be used for both pulse replication and pulse isolation applications, where a utility needs to isolate their billing meter's pulsed output from a customer's energy management system, RTU, Load Profile Recorder, or some other pulse collecting device. The IB6 can also replicate two or three pulsed inputs, providing the same pulse to several different devices.

The IB6 is a solid-state isolation relay with up to three Form-A or Form-C pulse inputs and up to six Form-A or Form-C solid-state pulsed outputs. This device is available in five different model configurations to fit most any utility metering application.

With all solid-state design and no moving parts, the IB6 Series Isolation Buffer is environmentally friendly and can be mounted in ANY position. All inputs and outputs terminations are clearly marked and feature visible LED's provided on both the Y and Z of each input and output to demonstrate the receipt and transmission of pulses.

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Applications

The IB6 can be utilized in the following applications:

- Isolation for substation pulse inputs/outputs
- Meter pulse isolation and pulse replication
- DC pilot wire signaling for long distances
- Pulse bounce filtering

Features

The IB6 provides the following features:

- Up to three Form-A or Form-C inputs accepting contact closures or open collector inputs
- Power supply accepting 120 - 277 VAC, selectable using PCB header shunts
- Input and Output color-coded LED indicators
- Maximum 10 pulses per second throughput
- Pulse debouncing in Form-A or Form-C mode

Ordering Information

| Model | Configuration |
|--------------|----------------------|
| IB6-12 | 1 Input, 2 Outputs |
| IB6-13 | 1 Input, 3 Outputs |
| IB6-24 | 2 Inputs, 4 Outputs |
| IB6-26 | 2 Inputs, 6 Outputs |
| IB6-36 | 3 Inputs, 6 Outputs |

Specifications

| Power Requirements | |
|----------------------------|---|
| Voltage | 120/240 (Optional-120/208, 120/277) VAC +/- 20% |
| Frequency | 60 Hz |
| Burden | Less than 4.8 VA @ 120 VAC |
| AC Input Surge Suppression | 1.5 Joules / 26 Amps |

| Inputs | |
|-------------------------|--|
| Number of Inputs | Up to 3 Form C (3 wire) or Form A (2 wire) |
| Voltage (Open Circuit) | 9.5 VDC |
| Current (Short Circuit) | 6.0 mA |

| Outputs | |
|----------------|--|
| Number | Up to 6 Form C (3 Wire) or Form A (2 Wire) |
| Voltage | 200 Volts DC or Peak AC |
| Current | 100 mA |
| Capacity | 20 VA DC or 14 VA AC RMS |
| Pulse Rate | 10 pulses / sec maximum |

| Environmental & Mechanical | |
|---------------------------------------|--|
| Temperature | -40 to +85° Celsius |
| Humidity | 5 to 95% non-condensing |
| Dimensions | 6.35" W X 5.10" H X 2.1" D |
| Mounting Plate | Fastened to an aluminum plate by four stand-offs. Sealable cover is optional |