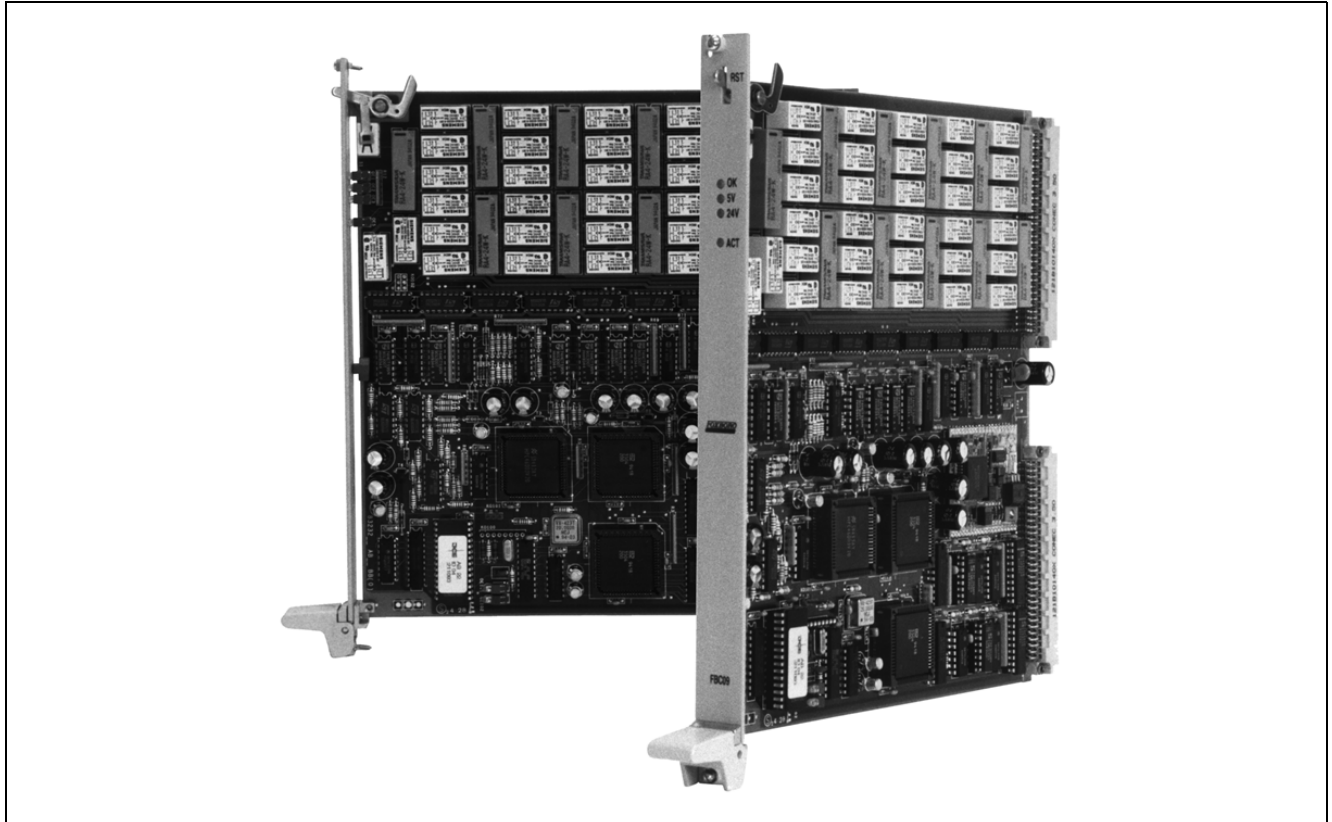


I/A Series® Hardware

32 Channel Isolated Digital Output Fieldbus Card Contact/Relay (FBC09)



The I/A Series Digital Output Fieldbus Card, FBC09, consists of 32 isolated digital output channels. If multiple Digital Output loops are powered from a common external power supply, the 32 output channels become group isolated, with all channels powered from the same power supply non-isolated from each other. The FBC09 performs contact output (i.e., on/off state) signal conversions required to interface to the I/A Series Fieldbus via the Fieldbus Processor 10 (FBP10).

The FBC09 mounts directly into a single slot of the Industrial Chassis 12 (ICH12) and Industrial Chassis 19 (ICH19). Signal wiring is via the discrete wire type, plug type, or ring lug type Termination

Cable Assembly (TCA) connected at the rear of the chassis.

FUNCTIONAL SPECIFICATIONS

Output

OUTPUT CHANNELS

32 Isolated

ISOLATION

500 V dc, output-to-logic, output-to-output

OUTPUT

Relay

Outputs are either "Hold Last Good State" or "Fail Safe" to "Open State" after 3 s when FBP10 fails; this mode is jumper selectable. Fail Safe position is all contacts opened.

Contact Relay

30 V dc/1 A/30 W maximum

Output "ON" Resistance (R_{ON})

200 m Ω (approximate)

Power Requirements

INPUT VOLTAGE

+5.25 V dc at 0.60 A

+24 V dc at 0.12 A

CONSUMPTION

+5.25 V (3.15 W)

+24 V (2.88 W)

Total (6.03 W)

HEAT DISSIPATION

+5.25 V (3.15 W)

+24 V (2.88 W)

32CH R_{ON} (6.40 W)

Total (12.43 W)

ENVIRONMENTAL SPECIFICATIONS

Operating

TEMPERATURE

0 to +70°C (32 to +158°F)

RELATIVE HUMIDITY

20 to 80% (Noncondensing)

Transportation and Storage

TEMPERATURE

-40 to +70°C (-13 to +158°F)

RELATIVE HUMIDITY

20 to 80% (Noncondensing)

Contamination

Class G1 (Mild) as defined in ISA Standard, S71.04

PHYSICAL SPECIFICATIONS

Mounting

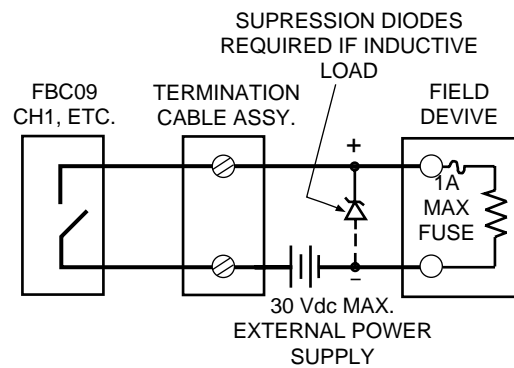
ICH12, ICH19 Chassis, single I/O slot

Mass

0.7 kg (1.5 lb)

Field Termination Connections

Discrete Wires from External Termination Assemblies. The TCA's are discrete wire type, plug type, or ring lug type.



TERMINOLOGY

- Non-isolated - Each channel is referenced to ground and the card itself is referenced to ground.
- Group-isolated - Electrically separate card-to-card but not channel-to-channel on the same card.
- Isolated - Each channel is electrically separated from any other channel, card, group, building, site, etc.

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