Foxboro FBM207C P0917GY

Installation & Commissioning Guide

Foxboro FBM207C P0917GY is a 48 v dc contact sense input module for 48 V dc dry-contact or solid-state switch states. It operates with the matching contact-sense termination assembly and redundant module Fieldbus and provides sixteen discrete input channels.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Provides sixteen discrete input channels for its 48 v dc contact sense input module function.

Feature 2

Handles 48 V dc dry-contact or solid-state switch states through the documented Foxboro system path.

Feature 3

Works with the matching contact-sense termination assembly and redundant module Fieldbus.

Feature 4

The module may be installed singly or in a controlled redundant pair.

VERIFIED DATA SNAPSHOT

Discrete inputs	16 channels
FBM207C function	48 V dc contact sense
Isolation	Each input isolated; group isolated with external excitation
Programs	Discrete input, ladder logic, pulse count and sequence of events

SYSTEM RELATIONSHIP

48 V contact → **Input termination** → **FBM207C** → **Discrete logic**

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Discrete inputs

16 channels

FBM207C function

48 V dc contact sense

Isolation

Each input isolated; group isolated with external excitation

Programs

Discrete input, ladder logic, pulse count and sequence of events

Input filter

Configurable filter time

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

SOURCE AND WORK CONTROLS

Manufacturer source	Schneider Electric, Foxboro Evo FBM207/b/c Voltage Monitor/Contact Sense Input Modules, PSS 31H-2Z7.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

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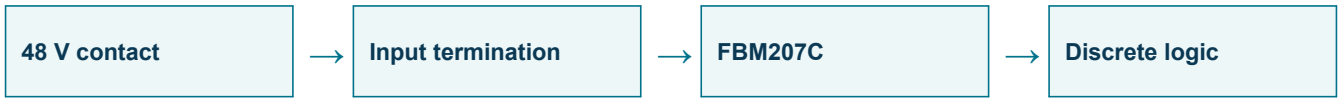
Installation sequence

CONTROLLED WORK STEPS

01	Match the complete FBM207C P0917GY marking to the work order and installed position before removal.
02	Confirm the matching contact-sense termination assembly and redundant module Fieldbus before disconnecting any interface.
03	Keep 48 V dc dry-contact or solid-state switch states within the documented electrical or pneumatic range.
04	Record terminal designations, polarity, common, shield and cable routing before disconnection.
05	Inspect mounting, connector keying, terminal condition and retention hardware before installation.
06	Restore the controlled database, range, alarm, filter and fail-state settings before energization.
07	Review local indicators and controller diagnostics during the controlled startup sequence.
08	Prove the intended response across sixteen discrete input channels and record the acceptance result before release.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.



WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

System maintenance

Restores the documented 48 v dc contact sense input module function in an existing Foxboro control system.

Signal-path service

Supports controlled testing of 48 V dc dry-contact or solid-state switch states at the assigned system position.

Planned replacement

Provides an exact-identity replacement path after the matching contact-sense termination assembly and redundant module Fieldbus has been verified.

Commissioning

Allows the responsible engineer to prove configuration, diagnostics and response for sixteen discrete input channels.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

Which voltage execution is identified by FBM207C P0917GY?	FBM207C is the 48 V dc contact-sense version.
How many discrete points are monitored?	Sixteen contact-sense input channels are provided.

Release record and technical references

CLOSEOUT QUESTIONS

Which control programs can use the inputs?	Discrete Input, Ladder Logic, Pulse Count and Sequence of Events programs are supported.
How is input filtering handled?	The input filter time is configurable for the application.
Can FBM207C be used as a redundant pair?	Yes. The documented architecture supports single or paired modules with the appropriate adapter and control blocks.
What status should be observed locally?	Front LEDs indicate module operation and the discrete state of individual input points.
What must be doubled in a redundant contact-sense arrangement?	The input current is doubled and contact-sense power is diode-ORed through the redundant adapter.
What proves each point after replacement?	Operate every connected contact, verify the channel indication, sequence/event behavior where used and the controller quality state.

RELATED MODELS FOR INSTALLATION PLANNING

Emerson MMS6312	Installation-planning reference. Review the complete ordering string before selection.
GE IC609SJR100	Installation-planning reference. Compare the required interface and system position.
GE 8103AI-TX	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

Manufacturer source	Schneider Electric, Foxboro Evo FBM207/b/c Voltage Monitor/Contact Sense Input Modules, PSS 31H-2Z7.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

IMPORTANT NOTICE	Release the equipment only after the responsible site authority accepts the recorded result.

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