Foxboro FBM219 P0916RH

Complete Product Information

Foxboro FBM219 P0916RH combines twenty-four discrete inputs with eight discrete outputs for voltage-monitor, contact-sense and switching applications.

WHAT THIS PRODUCT DOES

Foxboro FBM219 P0916RH is a discrete i/o interface module for mixed discrete sensing and controlled switching. It operates with the signal-specific termination assembly and module Fieldbus and provides twenty-four inputs plus eight outputs.

Product characteristic 1

Provides twenty-four inputs plus eight outputs for its discrete i/o interface module function.

Product characteristic 2

Handles mixed discrete sensing and controlled switching through the documented Foxboro system path.

Product characteristic 3

Works with the signal-specific termination assembly and module Fieldbus.

Product characteristic 4

Input and output groups are isolated according to the selected termination assembly.

PRODUCT-PAGE TECHNICAL SNAPSHOT

Discrete inputs	24 channels
Discrete outputs	8 channels
Supported levels	15 to 60 V dc; 120 V ac/125 V dc; 240 V ac through the matched TA
Filter/debounce	No filtering, 4, 8, 16 or 32 ms

IMPORTANT NOTICE

Use FBM219 P0916RH only with the signal-specific termination assembly and module Fieldbus; verify every interface and the controlled project configuration before energizing or pressurizing the subsystem.

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

Discrete inputs	24 channels
Discrete outputs	8 channels
Supported levels	15 to 60 V dc; 120 V ac/125 V dc; 240 V ac through the matched TA
Filter/debounce	No filtering, 4, 8, 16 or 32 ms
Output action	Sustained or momentary with configurable fail-safe behavior

FEATURE INTERPRETATION

Product identity

Provides twenty-four inputs plus eight outputs for its discrete i/o interface module function.

System role

Handles mixed discrete sensing and controlled switching through the documented Foxboro system path.

Service context

Works with the signal-specific termination assembly and module Fieldbus.

Return-to-service focus

Input and output groups are isolated according to the selected termination assembly.

SIGNAL OR CONTROL PATH

Field connection → **I/O module** → **Rack interface** → **Monitor channel**

The discrete i/o interface module belongs in the controlled Foxboro architecture and works with the signal-specific termination assembly and module Fieldbus. Its mating hardware, wiring, database configuration and final response must be checked together before release.

PRODUCT-PAGE TECHNICAL QUESTIONS

How many points are handled by Foxboro FBM219 P0916RH?	The module provides 24 discrete inputs and 8 discrete outputs.
Which voltage classes can its termination assemblies support?	Matched TAs cover low-voltage dc, 120 V ac/125 V dc and 240 V ac applications.
How can input debounce be configured?	Available selections are no filtering or 4, 8, 16 and 32 ms.

Common applications

The application groups below reproduce the model-specific uses presented on the product page and connect each use to a practical verification point.

System maintenance

Restores the documented discrete i/o interface module function in an existing Foxboro control system.

Signal-path service

Supports controlled testing of mixed discrete sensing and controlled switching at the assigned system position.

Planned replacement

Provides an exact-identity replacement path after the signal-specific termination assembly and module Fieldbus has been verified.

Commissioning

Allows the responsible engineer to prove configuration, diagnostics and response for twenty-four inputs plus eight outputs.

APPLICATION VERIFICATION MAP

System maintenance	Confirm the documented system position and the required operating function.
Signal-path service	Compare the restored connection or control path with the approved record.
Planned replacement	Check the physical interface and the retained configuration before startup.
Commissioning	Record diagnostics and the final controlled response before release.

INFORMATION CARRIED INTO THE WORK RECORD

Identity record

Complete marking and assigned system position.

Connection record

Connector, conductor and interface arrangement as found.

Configuration record

Controlled settings, application data and option state.

Acceptance record

Observed status, response and release decision.

IMPORTANT NOTICE

Use the complete product identifier for every application review; a related product link is not evidence of interchangeability.

APPLICATION QUESTIONS

How can input debounce be configured?	Available selections are no filtering or 4, 8, 16 and 32 ms.
Which output behaviors are configurable?	The application can use sustained or momentary outputs with controlled fail-safe and fallback settings.
Why must the termination assembly be identified first?	The TA determines signal conditioning, current limiting, fusing, relay arrangement and the applicable voltage interface.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

01	Match the complete FBM219 P0916RH marking to the work order and installed position before removal.
02	Confirm the signal-specific termination assembly and module Fieldbus before disconnecting any interface.
03	Keep mixed discrete sensing and controlled switching 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 twenty-four inputs plus eight outputs and record the acceptance result before release.

FREQUENTLY ASKED TECHNICAL QUESTIONS

How many points are handled by Foxboro FBM219 P0916RH?	The module provides 24 discrete inputs and 8 discrete outputs.
Which voltage classes can its termination assemblies support?	Matched TAs cover low-voltage dc, 120 V ac/125 V dc and 240 V ac applications.
How can input debounce be configured?	Available selections are no filtering or 4, 8, 16 and 32 ms.
Which output behaviors are configurable?	The application can use sustained or momentary outputs with controlled fail-safe and fallback settings.

IMPORTANT NOTICE	Use FBM219 P0916RH only with the signal-specific termination assembly and module Fieldbus; verify every interface and the controlled project configuration before energizing or pressurizing the subsystem.

RELEASE CHECKLIST

Identity accepted	The complete product marking and assigned system position agree.
Interfaces accepted	Connections, retention and controlled configuration match the recorded condition.
Response accepted	Diagnostics and the intended technical response have been documented.

FAQ, source record and related models

ADDITIONAL TECHNICAL QUESTIONS

Why must the termination assembly be identified first?	The TA determines signal conditioning, current limiting, fusing, relay arrangement and the applicable voltage interface.
What protection may be required for an inductive load?	Use the approved diode or metal-oxide-varistor suppression specified for the connected output circuit.
Which indicators assist point testing?	Front LEDs show module operation and the states of the discrete input and output points.
What is a complete I/O acceptance test?	Exercise all assigned inputs and outputs, verify filtering and fail-safe action, and confirm controller status over the module Fieldbus.

MANUFACTURER EVIDENCE RECORD

Manufacturer source	Invensys, I/A Series FBM219 Discrete I/O Interface Module, PSS 21H-2Z19 B4.
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.

RELATED MODELS ON APTERPOWER

Siemens 6DS1411-8RR	Related product reference. Review the complete ordering string before selection.
Siemens 6DS1300-8AB	Related product reference. Compare the required interface and system position.
Allen Bradley 1756-L61-B	Related product reference. Confirm the execution independently for the intended task.

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