Westinghouse 1C31189G01

Complete Product Information

Westinghouse 1C31189G01 measures tachometer frequency for Ovation overspeed detection and speed-regulation calculations.

WHAT THIS PRODUCT DOES

Westinghouse 1C31189G01 serves as a speed detector electronics module in the Ovation I/O subsystem. It interfaces tachometer frequency input with 1C31192G01 speed-detector personality module.

Product characteristic 1

Provides one speed sensor with Ovation point outputs for the documented speed detector electronics module function.

Product characteristic 2

Handles tachometer frequency input through the specified Ovation I/O subsystem.

Product characteristic 3

Works with 1C31192G01 speed-detector personality module.

Product characteristic 4

The module provides separate fast overspeed and high-resolution regulation values from the same sensor signal.

PRODUCT-PAGE TECHNICAL SNAPSHOT

Sensor input	One sinusoidal or pulse-train tachometer
Low-resolution output	16-bit; 200 Hz to 51,200 Hz
Low-resolution update	5 ms
High-resolution output	32-bit; 0.72 Hz to 65,535 Hz

IMPORTANT NOTICE

Use 1C31189G01 only with 1C31192G01 speed-detector personality module; verify the field interface and controlled configuration before energizing the subsystem.

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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

Sensor input	One sinusoidal or pulse-train tachometer
Low-resolution output	16-bit; 200 Hz to 51,200 Hz
Low-resolution update	5 ms
High-resolution output	32-bit; 0.72 Hz to 65,535 Hz
Personality module	1C31192G01

FEATURE INTERPRETATION

Product identity

Provides one speed sensor with Ovation point outputs for the documented speed detector electronics module function.

System role

Handles tachometer frequency input through the specified Ovation I/O subsystem.

Service context

Works with 1C31192G01 speed-detector personality module.

Return-to-service focus

The module provides separate fast overspeed and high-resolution regulation values from the same sensor signal.

SIGNAL OR CONTROL PATH

Tachometer → **Personality module** → **Speed electronics** → **Ovation controller**

The speed detector electronics module belongs in the controlled Ovation I/O subsystem and works with 1C31192G01 speed-detector personality module. Its field connection, companion hardware and project configuration must be reviewed together before the channel is returned to service.

PRODUCT-PAGE TECHNICAL QUESTIONS

What function does Westinghouse 1C31189G01 perform?	It measures tachometer frequency for Ovation overspeed detection and speed-regulation calculations.
How many channels are associated with Westinghouse 1C31189G01?	The documented configuration provides one speed sensor with Ovation point outputs.
Which signal path is used by Westinghouse 1C31189G01?	It is used for tachometer frequency input within the specified subsystem.

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.

Installed-base maintenance

Restores the documented speed detector electronics module position without changing the approved system architecture.

Loop or channel service

Supports verification of tachometer frequency input at the assigned control-system channel.

Planned replacement

Provides an exact-identity replacement path when 1C31192G01 speed-detector personality module and the field interface have been confirmed.

Commissioning support

Allows the responsible engineer to prove wiring, configuration, status and response for one speed sensor with Ovation point outputs.

APPLICATION VERIFICATION MAP

Installed-base maintenance	Confirm the documented system position and the required operating function.
Loop or channel 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 support	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

Which signal path is used by Westinghouse 1C31189G01?	It is used for tachometer frequency input within the specified subsystem.
Which companion hardware must be checked for Westinghouse 1C31189G01?	Confirm 1C31192G01 speed-detector personality module and the project-specific base or terminal arrangement.
What technical values should be verified before installing Westinghouse 1C31189G01?	Verify One sinusoidal or pulse-train tachometer; also confirm 16-bit; 200 hz to 51,200 hz and every applicable range or wiring selection.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

01	Match the complete 1C31189G01 marking to the work order and installed position before removal.
02	Confirm 1C31192G01 speed-detector personality module before making or breaking any field connection.
03	Keep the assigned tachometer frequency input within the documented subsystem and range.
04	Record terminal designations, polarity, common and shield treatment before disconnecting conductors.
05	Inspect module seating, connector keying, terminal condition and strain relief before power is restored.
06	Restore the controlled channel configuration, range selection and alarm or timeout behavior after installation.
07	Check local indicators and controller diagnostics for internal, communication or channel faults during commissioning.
08	Prove the intended response across one speed sensor with Ovation point outputs and record the acceptance result before release.

FREQUENTLY ASKED TECHNICAL QUESTIONS

What function does Westinghouse 1C31189G01 perform?	It measures tachometer frequency for Ovation overspeed detection and speed-regulation calculations.
How many channels are associated with Westinghouse 1C31189G01?	The documented configuration provides one speed sensor with Ovation point outputs.
Which signal path is used by Westinghouse 1C31189G01?	It is used for tachometer frequency input within the specified subsystem.
Which companion hardware must be checked for Westinghouse 1C31189G01?	Confirm 1C31192G01 speed-detector personality module and the project-specific base or terminal arrangement.

IMPORTANT NOTICE	Use 1C31189G01 only with 1C31192G01 speed-detector personality module; verify the field interface and controlled configuration before energizing 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

What technical values should be verified before installing Westinghouse 1C31189G01?	Verify One sinusoidal or pulse-train tachometer; also confirm 16-bit; 200 hz to 51,200 hz and every applicable range or wiring selection.
What connection details should be recorded for Westinghouse 1C31189G01?	Record terminal identifiers, polarity, common, shield termination, connector keying and the assigned channel before disconnection.
Which diagnostics should be reviewed when commissioning Westinghouse 1C31189G01?	Review the applicable power, communication, internal-fault and channel-status indications, then compare the controller status with the expected field condition.
Can a nearby ordering code replace Westinghouse 1C31189G01 without an engineering check?	No. Match the complete identifier, companion hardware, signal range, wiring and controlled project configuration before substitution.

MANUFACTURER EVIDENCE RECORD

Manufacturer source	Emerson Process Management, Ovation I/O Reference Manual R3-1150 Rev 3, Section 24, February 2003.
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

Foxboro AD916AE FBM203	Related product reference. Review the complete ordering string before selection.
Westinghouse 1C31116G01	Related product reference. Compare the required interface and system position.
Westinghouse 1C31129G03	Related product reference. Confirm the execution independently for the intended task.

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