Bently Nevada 3500/50M 286566-02

Complete Product Information

Bently Nevada 3500/50M 286566-02 converts up to two proximity-probe or magnetic-pickup signals into configured shaft-speed and direction measurements in a 3500 rack.

WHAT THIS PRODUCT DOES

Bently Nevada 3500/50M 286566-02 is a two-channel 3500/50M tachometer-family module for speed, rotor acceleration, zero-speed or reverse-rotation monitoring in a 3500 rack.

Product characteristic 1

Accepts up to two speed-related transducer signals.

Product characteristic 2

Supports speed, acceleration, zero-speed and reverse-rotation channel types.

Product characteristic 3

Provides buffered transducer and proportional recorder outputs.

Product characteristic 4

Can route conditioned Keyphasor signals through the 3500 backplane.

PRODUCT-PAGE TECHNICAL SNAPSHOT

Monitor family	3500/50M tachometer
Input channels	Two
Accepted signal families	Proximity probes or compatible magnetic pickups
Measured functions	Speed, rotor acceleration, zero speed and reverse rotation

IMPORTANT NOTICE

Verify the paired I/O module, rack slot and channel configuration before replacement. Record peak-value reset, alarm response and host-system indication before release.

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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

Monitor family	3500/50M tachometer
Input channels	Two
Accepted signal families	Proximity probes or compatible magnetic pickups
Measured functions	Speed, rotor acceleration, zero speed and reverse rotation
Maximum input frequency	20 kHz
Maximum full scale	99,999 rpm
Recorder output	4–20 mA per channel
Configuration	3500 Rack Configuration software

FEATURE INTERPRETATION

Product identity

Accepts up to two speed-related transducer signals.

System role

Supports speed, acceleration, zero-speed and reverse-rotation channel types.

Service context

Provides buffered transducer and proportional recorder outputs.

Return-to-service focus

Can route conditioned Keyphasor signals through the 3500 backplane.

SIGNAL OR CONTROL PATH

Speed sensor → **Input channel** → **Speed processing** → **Monitoring output**

The module is a machinery monitoring input and must not be used by itself as a speed-control or overspeed-protection system. Events per revolution, thresholds, scaling and alarm delays require controlled configuration.

PRODUCT-PAGE TECHNICAL QUESTIONS

How many transducer inputs are processed by 3500/50M 286566-02?	It processes up to two proximity-probe or magnetic-pickup signals.
Which channel functions can be configured on 3500/50M 286566-02?	The family supports speed, rotor acceleration, zero-speed and reverse-rotation functions.
What maximum input frequency is supported by 3500/50M 286566-02?	The tachometer family accepts up to 20 kHz.

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.

Shaft-speed monitoring

Measures rotational speed from proximity or magnetic-pickup pulse trains.

Rotor-acceleration alarming

Calculates speed change for configured acceleration channels.

Zero-speed supervision

Detects loss of rotation within the configured channel logic.

Reverse-rotation detection

Counts and reports reverse motion using the selected input arrangement.

APPLICATION VERIFICATION MAP

Shaft-speed monitoring	Confirm the documented system position and the required operating function.
Rotor-acceleration alarming	Compare the restored connection or control path with the approved record.
Zero-speed supervision	Check the physical interface and the retained configuration before startup.
Reverse-rotation detection	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

What maximum input frequency is supported by 3500/50M 286566-02?	The tachometer family accepts up to 20 kHz.
Why must not serve as the only overspeed device 3500/50M 286566-02?	The manufacturer warns that it is not an independent speed-control or overspeed-protection system.
How are events per revolution used by 3500/50M 286566-02?	They convert incoming pulse frequency into shaft speed and affect channel setup.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

01	Verify the paired I/O module, rack slot and channel configuration before replacement.
02	Do not use the tachometer module alone for machine speed control or overspeed protection.
03	Confirm transducer type, polarity, amplitude and events-per-revolution before energizing.
04	Set manual or automatic thresholds to suit the installed pickup signal.
05	Verify full scale, alarm delays and recorder-output scaling in the rack configuration.
06	Inspect buffered-output and rear I/O connections for correct channel assignment.
07	Simulate speed, zero-speed and reverse-direction conditions as applicable to the configuration.
08	Record peak-value reset, alarm response and host-system indication before release.

FREQUENTLY ASKED TECHNICAL QUESTIONS

How many transducer inputs are processed by 3500/50M 286566-02?	It processes up to two proximity-probe or magnetic-pickup signals.
Which channel functions can be configured on 3500/50M 286566-02?	The family supports speed, rotor acceleration, zero-speed and reverse-rotation functions.
What maximum input frequency is supported by 3500/50M 286566-02?	The tachometer family accepts up to 20 kHz.
Why must not serve as the only overspeed device 3500/50M 286566-02?	The manufacturer warns that it is not an independent speed-control or overspeed-protection system.

IMPORTANT NOTICE	Verify the paired I/O module, rack slot and channel configuration before replacement. Record peak-value reset, alarm response and host-system indication before release.

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, configuration control and related models

ADDITIONAL TECHNICAL QUESTIONS

How are events per revolution used by 3500/50M 286566-02?	They convert incoming pulse frequency into shaft speed and affect channel setup.
Which output permits local transducer-signal inspection on 3500/50M 286566-02?	Buffered outputs expose the conditioned channel input for testing.
What should be checked before enabling reverse-rotation logic on 3500/50M 286566-02?	Verify channel pairing, pulse direction assumptions and controlled forward/reverse response.
How is a commissioned channel on accepted 3500/50M 286566-02?	Confirm speed accuracy, alarm thresholds, delay behavior, recorder current and the connected system indication.

CONFIGURATION CONTROL RECORD

Configuration identity	Bently Nevada 3500/50M 286566-02
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

RELATED MODELS ON APTERPOWER

Bently Nevada 3500/32M	Related product reference. Review the complete ordering string before selection.
Bently Nevada 3500/40M	Related product reference. Compare the required interface and system position.
Bently Nevada 3500/40M 135489-04	Related product reference. Confirm the execution independently for the intended task.

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