

3500/50 133388-02

3500/50 Tachometer Module

Bently Nevada 3500/50 133388-02 is a two-channel 3500 tachometer module. It measures rotational speed from compatible proximity-probe or magnetic-pickup inputs.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3500 machinery protection system

PART

3500/50 133388-02

ORIGIN / HS

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PRODUCT OVERVIEW

Bently Nevada 3500/50 133388-02 is a two-channel 3500 tachometer module. It measures rotational speed from compatible proximity-probe or magnetic-pickup inputs.

- 1

Measures shaft rotational speed from pulse or keyphasor signals
- 2

Provides speed values and alarm comparison in the 3500 rack
- 3

Supports independent channel configuration
- 4

Communicates module status and measured values to the rack interface

SYSTEM COMPONENTS

3500 rack

compatible I/O module

proximity probe or magnetic pickup

speed reference target

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330171-00-12-05-01-05	3300 XL proximity probe	Open product page
200150-09-CN	General-purpose accelerometer	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Module function	Tachometer / overspeed measurement
Input channels	2

PARAMETER	VALUE
Input source	Proximity probe or magnetic pickup

SYSTEM CONNECTION AND ACCEPTANCE RECORD

RECORD ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	3500 rack
Companion hardware	compatible I/O module
Field connection	proximity probe or magnetic pickup
Primary system function	Measures shaft rotational speed from pulse or keyphasor signals
Controlled acceptance duty	Turbine shaft-speed monitoring

TECHNICAL NOTE

Record channel input type, pulses per revolution, scale, setpoints, and voting before replacement, then verify indicated speed against a controlled reference throughout the required operating range.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Turbine shaft-speed monitoring

Measures shaft rotational speed from pulse or keyphasor signals

Compressor speed indication

Provides speed values and alarm comparison in the 3500 rack

Machine startup and shutdown speed tracking

Supports independent channel configuration

Rotating-equipment overspeed supervision

Communicates module status and measured values to the rack interface

PRODUCT PRECAUTIONS

- 1 Verify 3500/50 133388-02 and its I/O module before removal.
- 2 Place overspeed and machine-start logic in approved maintenance state.
- 3 Record sensor type, polarity, pulses per revolution, and scale.
- 4 Preserve shield and input wiring identity.
- 5 Use ESD controls and inspect backplane connectors.
- 6 Confirm channel setpoints and rack communication after insertion.
- 7 Compare indicated speed with a controlled reference at several points.
- 8 Prove alarms, relays, and machine permissives before service.

ENGINEER FAQ

Q1 What isolation is required before installing 3500/50 133388-02?

Place turbine shaft-speed monitoring in the approved maintenance state, isolate every applicable power, signal, and stored-energy source, and prove the work area safe.

Q3 How can an engineer function-test 3500/50 133388-02 after installation?

Apply a controlled input, reference, or limited output appropriate to 3500/50 tachometer module, observe the system indication and diagnostics, and confirm the intended process response.

Q5 Can 3500/50 133388-02 be replaced by a visually similar model without review?

No. Verify the complete part number, electrical execution, connector arrangement, companion hardware, and approved software or rack configuration.

Q7 Which installed hardware must be matched before fitting 3500/50 133388-02?

Match the complete 3500/50 133388-02 marking to 3500 rack and compatible I/O module, then confirm the assigned 3500 machinery protection system position and approved system configuration.

Q2 Which configuration check is essential when commissioning 3500/50 133388-02?

Restore only the approved model-specific channel, range, address, scale, or interface settings and compare them with the physical installation before enabling the process function.

Q4 What should be checked if 3500/50 133388-02 reports an unstable or incorrect value?

Check seating, supply, grounding, shielding, matched components, mechanical installation, and the signal path before changing configuration or replacing additional hardware.

Q6 What commissioning evidence should be retained for 3500/50 133388-02?

Retain the full 3500/50 133388-02 identity, as-left wiring and settings, measured functional-test results, final diagnostics, and authorization to return the affected equipment to service.

Q8 How should the field connections for 3500/50 133388-02 be recorded before replacement?

Record terminal or connector identity, polarity, shield, cable tag, channel assignment, and the as-found diagnostic state before disconnecting 3500/50 133388-02.