Bently Nevada 990-05-XX-03-CN 104M1359-01

COMPLETE PRODUCT INFORMATION

Bently Nevada 990-05-XX-03-CN 104M1359-01 is a 990-series vibration transmitter for an overall-vibration input to a machinery control system. Its special execution requires confirmation of the transducer length, calibration and approval marking before installation.

Complete identity and code references

990	Vibration transmitter family
05	Standard ordering-table meaning: 0-5 mil peak-to-peak
XX	System-length placeholder; numerical value not supplied
03	Standard ordering-table meaning: DIN clips and bulkhead screws
CN / 104M1359-01	Retained exactly; special approval and identifier not decoded

System relationship

Installed probe + cable	**990-series transmitter**	**Machinery controller**
Exact combination requires confirmation	Signal conditioning and current loop	Scaling, trending and alarm logic

OEM compressor channels

The 990 family supports overall shaft-vibration inputs to centrifugal-air-compressor control systems; confirm this execution against the machine channel.

Small pump monitoring

Use the transmitter family where the pump design specifies a proximity-based overall-vibration loop and documented companion components.

Motor and fan trending

Provide a current-loop trend input in a suitable OEM design after checking the full special identifier and receiving-controller scale.

Service diagnostic access

Inspect the separate dynamic output with suitable isolated equipment; the current-loop trend does not capture the diagnostic waveform.

Important Notice

The supplied 141612 Rev. Y datasheet is a series reference. It does not identify 104M1359-01 or resolve XX and CN for this execution. Standard ordering meanings and series ratings do not independently confirm special-execution calibration, component compatibility or certification.

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com

990-05-XX-03-CN 104M1359-01

Two-wire loop reference

Supply at Transmitter	+12 to +35 VDC; approval-specific circuit limits also apply
Process Output	4-20 mADC, two-wire, proportional to configured full scale
Loop Accuracy	Within +/-1.5% of full scale, TEST input to a 250-ohm loop
Loop Accuracy Boundary	Additional to PROX OUT incremental scale-factor error
Maximum Loop Resistance	1000 ohm including cable at 35 VDC
Current Limiting	23 mA typical

Defined accuracy path

The loop-accuracy test uses the TEST input and a 250-ohm loop load. Additional PROX OUT scale-factor error is separate. Keep that electronic-loop result distinct from the overall error of the installed probe, target and special calibration.

Status behavior reference

Not OK Output	Below 3.6 mA within 100 us after a Not OK condition
Not OK Recovery	2-3 seconds after the fault condition is removed
Power-up Inhibit	Output below 3.6 mA for 2-3 seconds

Diagnostic interface reference

Zero and Span	Independent external adjustments under the label
Diagnostic Output	Non-isolated PROX OUT / COM and coaxial connector
PROX OUT Impedance	10 kohm, calibrated for a 10 Mohm load
PROX OUT Cable Limit	3 m maximum from the BNC diagnostic output
Grounded Test Equipment Interface	122115-01 test adapter for signal isolation
Transducer-system Frequency Range	5-6000 Hz

Related Bently Nevada models

Bently Nevada 990-05-50-01-05	Related portfolio item; verify full configuration
Bently Nevada 990-04-70-01-05	Related portfolio item; verify full configuration

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com

01 / Exact identity

Retain the complete 104M1359-01 identifier; do not replace it with another 990 special number when selecting or recording a unit.

02 / System length

Resolve XX from the equipment configuration and component markings before selecting the probe, extension cable or replacement transmitter.

03 / Mounting hardware

Compare the actual mounting hardware with the standard 03 reference for DIN clips and bulkhead screws; secure the arrangement specified for the installed unit.

04 / Supply and approval

Check terminal voltage, receiving load and actual approval conditions before energizing; the general series power range does not establish a hazardous-area circuit.

05 / Instrument isolation

Use the 122115-01 isolation adapter with grounded AC-powered diagnostic equipment; the series PROX OUT connection is not isolated from the current loop.

06 / Diagnostic connection

Keep the series diagnostic BNC cable within its documented 3 m limit and distinguish instrument loading from the controller-loop load.

07 / Startup indication

Investigate a persistent below-3.6 mA indication after the series startup interval; do not interpret a Not OK signal as zero measured vibration.

08 / Final acceptance

Complete both loop-path and installed probe/target checks using the confirmed special configuration before returning the channel to service.

Loop and installed-channel checks

The TEST input accepts a function-generator signal for a loop-output check. This evaluates a different path from the installed probe, target and extension cable. Record the selected test path and instrument loading, and complete the installed-channel functional check separately.

Capability boundary

The 4-20 mA signal supports overall peak-to-peak trending. It does not determine vibration phase, capture an alarm waveform or implement gap/phase alarms, Timed OK channel defeat, Danger Bypass or Trip Multiply. The machinery control system supplies its configured alarm and logic functions.

990-series transmitter environment

Transmitter Operating Temperature	-35 to +85 deg C; installed approval limits also apply
Storage Temperature	-52 to +100 deg C
Humidity	100% condensing, non-submerged, with protected coaxial connectors

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com

What does the 104M1359-01 identifier establish on 990-05-XX-03-CN 104M1359-01?

It is part of the complete requested identity. The supplied 141612 Rev. Y reference does not explain its modification, calibration or companion-probe selection, so those attributes remain unassigned.

Can XX in 990-05-XX-03-CN 104M1359-01 be treated as a five-metre system?

No. XX is retained as written and does not specify a numerical length. The standard family offers 5 m and 7 m NSv systems, but neither length can be selected for this special execution from that general listing.

How is the 05 field in 990-05-XX-03-CN 104M1359-01 interpreted?

The standard ordering table defines 05 as 0-5 mil peak-to-peak, listed as 0-125 um. That is a code reference; the actual calibration of the unlisted 104M1359-01 execution still needs its configuration record.

Which mounting reference accompanies the 03 field in 990-05-XX-03-CN 104M1359-01?

Standard mounting option 03 supplies both DIN-rail clips and bulkhead mounting screws. Inspect the delivered hardware and the machine mounting arrangement before applying that reference to the special unit.

Related Bently Nevada models

Bently Nevada 990-05-50-01-05	Related portfolio item; verify full configuration
Bently Nevada 990-04-70-01-05	Related portfolio item; verify full configuration

Recommendations

These are related portfolio links, not compatibility or substitution approvals. Compare every complete identifier and the installed configuration independently; a matching enclosure or base 990 number is insufficient.

Document purposes

Technical Reference	Series architecture, reference ratings and evidence boundaries
Installation & Commissioning Guide	Identity, mounting, diagnostic checks and acceptance
Complete Product Information	Product scope, reference data, precautions and FAQs

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com

Does CN in 990-05-XX-03-CN 104M1359-01 confirm a hazardous-area approval?

The supplied 990 ordering table does not define this CN execution. Use the actual unit marking and applicable circuit documentation; no particular certification is assigned from the suffix alone.

Why should grounded diagnostic equipment be isolated from 990-05-XX-03-CN 104M1359-01?

The 990 family PROX OUT connection shares the loop reference. The 122115-01 test adapter isolates and conditions that diagnostic signal for grounded AC-powered instruments, helping preserve the loop measurement.

What startup indication is described for the series used by 990-05-XX-03-CN 104M1359-01?

The 990 reference holds output below 3.6 mA for 2-3 seconds after power is applied. A continuing low signal needs investigation against the actual transducer connections and special-execution documentation.

Can the current loop from 990-05-XX-03-CN 104M1359-01 provide vibration phase?

The family current loop represents overall peak-to-peak amplitude and does not determine vibration phase or capture alarm waveforms. Dynamic investigation uses the separate diagnostic signal and suitable instrumentation.

Separate diagnostic and trend roles

4-20 mA loop	Overall peak-to-peak amplitude for the machinery controller
PROX OUT	Dynamic vibration and gap-voltage access
TEST input	Electronic loop-output verification

Related Bently Nevada models

Bently Nevada 990-10-XX-01-00 163930-01	Related portfolio item; verify full configuration

Manufacturer evidence and applicability

990 Vibration Transmitter Datasheet 141612 Rev. Y: family role and interfaces p. 1; diagnostic isolation and limitations p. 2; electrical reference and specifically listed modifications p. 3; environment p. 4; approval conditions p. 6; standard ordering p. 7; test adapter p. 10. The user-supplied file does not decode this special execution.

Configuration before use

The user-supplied 990 series reference supports the family description. A special-execution record or verifiable marking is still needed to complete unknown length, calibration and approval fields.

Connect with ApterPower

Phone: +86 180 3023 5313

Email: sales13@apterpower.com

www.apterpower.com