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

01 / IDENTITY AND EVIDENCE BOUNDARY

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.

Identity and standard 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

Measurement and control roles

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

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.

Where the supplied evidence stops

The source specifically names modifications 147202-01 and 165335-01. Neither is the requested 104M1359-01 identifier. Their special transducer relationships cannot be transferred to this 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
Bently Nevada 990-10-XX-01-00 163930-01	Related portfolio item; verify full configuration

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02 / TWO-WIRE LOOP REFERENCE

Applicability

All numerical data in the reference tables describe the documented 990 family. The supplied file does not identify this special execution. Resolve its actual calibration, transducer combination and approvals before applying these reference values to a machine.

990-series electrical 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

Accuracy boundary

The +/-1.5% loop rating is measured from the TEST input to voltage across a 250-ohm load. PROX OUT incremental scale-factor error is additional. This statement is not a confirmed total accuracy for the unidentified special calibration.

Separate commissioning paths

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.

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.

Related Bently Nevada models

Bently Nevada 990-05-50-01-05	Related portfolio item; verify full configuration
Bently Nevada 990-10-XX-01-00 163930-01	Related portfolio item; verify full configuration

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03 / DYNAMIC DIAGNOSTICS AND STATUS

990-series diagnostic interface

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

990-series status 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

Instrument isolation

The dynamic PROX OUT path is not isolated from the two-wire current loop. The 122115-01 test adapter provides signal isolation and conditioning for grounded AC-powered diagnostic instruments. An oscilloscope ground connection must not be treated as electrically independent of the operating loop.

Trend versus diagnosis

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.

Related Bently Nevada models

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

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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

Approval selection

The general series supply range and environmental limits do not establish an approved hazardous-area circuit. The CN suffix in this requested identity is not decoded in the supplied 990 ordering table. Keep any approval-dependent selection open until the actual marking and circuit documents are available.

Evidence needed before application

Identity	Record the complete model including 104M1359-01
Companion components	Resolve XX and the special probe/cable combination
Electrical check	Check actual supply, load, wiring and approval conditions
Functional check	Verify loop path, installed target response and controller scale
Handover	Retain configuration evidence and machine acceptance results

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.

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.

Installation record

Keep transmitter conditions separate from conditions at the probe and target. The reference transmitter environment does not identify the allowable temperature of an unspecified special probe.

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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.

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.

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.

Related Bently Nevada models

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

Related-product boundary

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.

Independent service records

Identity record	Complete transmitter and companion-component numbers
Circuit record	Loop wiring, instrument interface and approval documents
Measurement record	Actual calibration and installed functional-test result

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.

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