01 / Product and system dashboard

BENTLY NEVADA

3300/20-03-01

Thrust Position Monitor

Product role

Bently Nevada 3300/20-03-01 is a dual thrust-position monitor for axial shaft observation through proximity transducer signals in a configured 3300 system.

Target
Thrust collar or shaft

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Inputs
Two proximity channels

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Protection
Configured position alarms

Engineering scope

The technical functions describe the 3300/20 design for the offered 3300/20-03-01 reference. Relay, agency and safety-barrier configuration must be confirmed from the complete supplied marking; no additional suffix is assumed.

02 / Verified identity and technical relationships

Property	Applicable fact	Property	Applicable fact
Product type	Dual thrust-position monitor	Signal accuracy	At +25°C: ±0.33% full-scale typical, ±1% maximum
Input channels	One or two proximity transducer signals	Recorder outputs	Per channel: 4–20 mA, +1 to +5 Vdc or 0 to −10 Vdc
Input impedance	10 kΩ	Buffered outputs	Front coaxial and rear terminal connection per channel
Programmable sensitivity	200 mV/mil (8 V/mm) or 100 mV/mil (4 V/mm)	Alarm voting	OR or AND; relay configuration restrictions apply
Nominal power	1.5 W	Supplied configuration	Confirm relay, approval and barrier selections from complete marking

Configuration boundary

The technical functions describe the 3300/20 design for the offered 3300/20-03-01 reference. Relay, agency and safety-barrier configuration must be confirmed from the complete supplied marking; no additional suffix is assumed.

03 / Applications and system integration

Thrust-bearing observation

Monitor axial shaft position relative to the machine thrust clearances using suitably located proximity probes.

Dual-channel protection planning

Observe the same collar or shaft with two channels and configure the approved voting arrangement for the installed relay hardware.

Analog recorder integration

Send independent position signals to compatible recorder inputs with matching range, polarity and current or voltage selection.

Transducer signal inspection

Use the buffered front and rear outputs for appropriate signal observation during planned diagnostics and acceptance checks.

Functional context

The monitor accepts one or two proximity signals with a 10 kΩ input impedance and uses 1.5 W nominal power. Input sensitivity is programmable for 200 mV/mil (8 V/mm) or 100 mV/mil (4 V/mm), to match the transducer system. Each channel has an independent recorder output selectable as 4–20 mA, +1 to +5 Vdc or 0 to −10 Vdc; front and rear buffered transducer connections support signal observation.

04 / Service and installation decisions

Verify complete assembly identity

Match the full supplied marking and rear-module identity; do not infer missing relay or approval selections.

Match sensitivity

Set the monitor for the actual proximity system sensitivity and verify its calibrated response.

Set probes correctly

Check target position and operating gap throughout the intended axial travel under the manufacturer procedure.

Review voting logic

Confirm the required AND or OR logic and the limitations of the installed relay arrangement.

Check recorder interfaces

Match the selected output type, receiver loading and full-scale interpretation on both channels.

Complete protection testing

Use a controlled test to verify indications, alarms, relay response and restoration of bypass functions before normal operation.

05 / Reference basis and related portfolio

Lifecycle and supply

A current manufacturer lifecycle phase has not been confirmed. Request current support and replacement guidance using the complete 3300/20-03-01 identity. Apter Power availability is confirmed separately in the quotation.

Reference basis

Bently Nevada 3300/20 Dual Thrust Position Monitor, 141500-01 Rev. J.

Apter Power technical summary. Apply the original instructions for the actual installation.

Related industrial automation products

Navigation only; no substitution or compatibility claim.

Bently Nevada 3300/55-01-04-02-02-00-00-05-00

Bently Nevada 31000-16-10-00-030-02-02

Bently Nevada 31000-16-10-15-100-02-02

Discuss your installed configuration

Send the full unit marking and connection details.

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