

Bently Nevada 3500/40M 126615-01

Four-channel Proximitor monitor component

Overview

The Bently Nevada 3500/40M is a four-channel Proximitor Monitor for proximity-based vibration and position measurements including radial vibration, thrust position, eccentricity, differential expansion and REBAM.

01 / FUNCTION

Accepts one to four proximity-transducer signals.

02 / FUNCTION

Supports radial vibration, thrust, eccentricity, differential expansion and REBAM channel types.

03 / FUNCTION

Provides buffered transducer outputs and 4-20 mA recorder outputs.

04 / FUNCTION

Compares conditioned measurements with configurable Alert and Danger setpoints.

PUBLIC PRODUCT FIELD	OFFICIAL VALUE
Exact I/O identity	External-termination I/O module
Channels	1 to 4 proximity-transducer inputs
Power consumption	7.7 W typical
Standard input impedance	10 kOhm
Radial/thrust/eccentricity sensitivity	3.94 or 7.87 mV per micrometre
Differential-expansion sensitivity	0.394 or 0.787 mV per micrometre

Technical parameter dashboard

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PARAMETER	OFFICIAL VALUE	PARAMETER	OFFICIAL VALUE	PARAMETER	OFFICIAL VALUE
Exact I/O identity	External-termination I/O module	Differential-expansion sensitivity	0.394 or 0.787 mV per micrometre	Direct filter selections	4-4000 Hz or 1-600 Hz, channel dependent
Channels	1 to 4 proximity-transducer inputs	REBAM sensitivity	40 or 80 mV per micrometre	Typical accuracy	+/-0.33% of full scale
Power consumption	7.7 W typical	Transducer supply	-24 Vdc nominal	Maximum accuracy error	+/-1% of full scale
Standard input impedance	10 kOhm	Buffered-output impedance	550 Ohm	Operating temperature	-30 to +65 degrees C
Radial/thrust/eccentricity sensitivity	3.94 or 7.87 mV per micrometre	Recorder output	4-20 mA proportional to full scale		

Official evidence boundary

Official evidence: 3500/40M Proximity Monitor Datasheet, 141535 Rev. R. Technical statements in this document are limited to that manufacturer publication and the exact ordering identity shown.

Common applications and Product Precautions

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Radial shaft vibration Condition proximity-probe dynamic motion for machinery-protection alarming.	Thrust position Monitor axial position with a matched proximity system and configured alarm limits.	Differential expansion Measure relative thermal growth using the documented paired-channel configuration.	Eccentricity or REBAM Apply the appropriate sensitivity and filtering to slow-roll or bearing measurements.
01 / CHECK Identify the exact I/O type and termination method before disturbing field wiring.	02 / CHECK Match every channel to its documented proximity probe, extension cable and Proximitor Sensor.	03 / CHECK Restore transducer sensitivity and channel type before setting alarm values.	04 / CHECK Verify gap voltage and buffered output before accepting dynamic measurements.
05 / CHECK Keep recorder wiring within the 4-20 mA load specification and preserve grounding.	06 / CHECK Confirm selected filters and full-scale ranges against the machine configuration.	07 / CHECK Run a controlled functional test of Alert, Danger and Not-OK behavior.	08 / CHECK Archive final gap, scale, alarm and recorder-output results before return to service.

Engineering FAQ

Eight exact-model answers with official evidence

What extra hardware is required when 3500/40M 126615-01 uses external terminations?

The external-termination I/O requires the documented termination block and cable arrangement; retain those identities during replacement.

Why can 3500/40M 126615-01 not be exchanged blindly with an internal-termination spare?

The field interface, cable and termination-block arrangement differ even though the monitor family performs the same measurements.

How should differential-expansion sensitivity be checked for 3500/40M 126615-01?

Use the configured 0.394 or 0.787 mV per micrometre option and the installed probe-system calibration.

What evidence supports a REBAM channel connected through 3500/40M 126615-01?

Confirm the 40 or 80 mV per micrometre sensitivity, probe geometry, filter and baseline response documented for the bearing measurement.

Which supply condition should be measured at the external circuit of 3500/40M 126615-01?

The monitor provides a nominal -24 Vdc transducer supply; verify channel bias at the termination arrangement.

Why is buffered-output impedance relevant to testing 3500/40M 126615-01?

The 550 Ohm published impedance informs the temporary measurement interface and helps avoid loading the buffered signal.

How can external cable restoration for 3500/40M 126615-01 be accepted?

Check continuity, shield routing, polarity and terminal-block identity before comparing gap and dynamic response with the pre-work baseline.

What commissioning package should accompany 3500/40M 126615-01?

Retain the external block and cable IDs, channel configuration, probe calibration, gap, full scale, alarm test and recorder-output results.

Related products and contact

Catalogue navigation separate from technical evidence

NO.	RELATED APTERPOWER PRODUCT	LINK
01	Bently Nevada 3500-05-01-01-00-00-01	Bently Nevada 3500-05-01-01-00-00-01
02	Bently Nevada 136719-01-304719	Bently Nevada 136719-01-304719
03	Bently Nevada 3500-61-C2-A0133811-02	Bently Nevada 3500-61-C2-A0133811-02
04	Bently Nevada 3500-04-C2-A0136719-01-C2-A0128275-01F	Bently Nevada 3500-04-C2-A0136719-01-C2-A0128275-01F
05	Bently Nevada 3500-04-136719-01-128275-01	Bently Nevada 3500-04-136719-01-128275-01
06	Bently Nevada 130118-0050-02	Bently Nevada 130118-0050-02

Compatibility notice

A related ApterPower page is not an approved substitute. Verify the exact manufacturer ordering code, installed interfaces and configuration before procurement or maintenance release.

APTER POWER CONTACT

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