

INDUSTRIAL AUTOMATION PRODUCT

3500/45

Position Monitor

Bently Nevada 3500/45 is a four-channel Position Monitor for thrust, differential expansion, case expansion and valve-position measurements.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada 3500 System
Part number	3500/45

APTER POWER SALES TEAM

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Technical Specifications

Technical values below are limited to the named Bently Nevada product record.

PARAMETER	TECHNICAL VALUE
monitor type	four-channel Position Monitor
accepted sensors	proximity transducers, rotary position transducers, DC LVDTs and AC LVDTs
thrust measurement	supported
differential expansion	standard, ramp and complementary input modes
case expansion	supported on channels 3 and 4
valve position	supported with the approved rotary position transducer
alarm handling	programmable alert and danger setpoints
configuration platform	3500 Rack Configuration Software

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	Bently Nevada 3500 System
Companion hardware	the documented companion module
Field connection	approved field wiring
Primary system function	Provides four position channels
Controlled acceptance duty	Axial thrust position

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System Role and Architecture

Bently Nevada 3500/45 is a four-channel Position Monitor for thrust, differential expansion, case expansion and valve-position measurements.

FUNCTION 1

Provides four position channels

FUNCTION 2

Accepts proximity and LVDT inputs

FUNCTION 3

Supports multiple TSI position functions

FUNCTION 4

Drives programmable alarms

Matched system components

- Bently Nevada 3500 System
- the documented companion module
- approved field wiring
- the controlled rack configuration

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Bently Nevada 3500 System
Companion hardware	the documented companion module
Field connection	approved field wiring
Primary system function	Provides four position channels
Controlled acceptance duty	Axial thrust position

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Applications and Engineering Context

Axial thrust position

Provides four position channels

Differential expansion

Accepts proximity and LVDT inputs

Case expansion

Supports multiple TSI position functions

Valve position

Drives programmable alarms

TECHNICAL NOTE

Retain the exact channel measurement type, sensor selection, scale, polarity and alarm logic before replacing 3500/45.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	3500/45 / 3500/45 recorded
Physical interface	Bently Nevada 3500 System
Companion check	the documented companion module
Functional proof	Provides four position channels
Application test	Axial thrust position

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Engineering Precautions

1

Verify the complete 3500/45 marking and its assigned Bently Nevada 3500 System position before work.

2

Place the connected axial thrust position process in the approved maintenance state.

3

Isolate every documented power, signal and stored-energy source before disconnecting conductors or cables.

4

Record the installed slot, connectors, conductors, addressing, firmware and software configuration before removal.

5

Use ESD-safe handling and protect keyed electrical, fiber or sensor interfaces as applicable.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 330909 00 25 10 02 00	Related industrial automation product	View Bently Nevada 330909 00 25 10 02 00 page
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Bently Nevada 330905 0 25 05 02 IN	Related industrial automation product	View Bently Nevada 330905 0 25 05 02 IN page
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ABB PM590 ETH 1SAP150000R0271	Related industrial automation product	View ABB PM590 ETH 1SAP150000R0271 page

MANUFACTURER SOURCE RECORD

3500/45 Position Monitor Datasheet

141537 Rev. R

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