

24765-01-00

Case Expansion Transducer Assembly

PRODUCT TECHNICAL REFERENCE

Bently Nevada 24765-01-00 is a dc case-expansion transducer assembly with a 25.4 mm ordered range and no spring return. Its LVDT measures turbine-casing thermal growth relative to the foundation for supervisory monitoring.

OFFICIAL SOURCE

24765 and 135613 Case Expansion Transducer Systems Datasheet | 141598 Rev. K

Verified technical profile

Case Expansion Transducer Assembly

Transducer type	dc LVDT case expansion assembly
Input power	+24 Vdc, 30 mA minimum
Ordered range	25.4 mm (1.0 in)
Linear measurement span	+/-12.7 mm (+/-0.5 in)
Spring return	Without
Scale factor	0.346 V/mm (8.79 V/in)
-3 dB frequency	20 Hz
Output impedance	7 kohm nominal
Minimum load resistance	50 kohm
Linearity	+/-0.5% full-range
Operating temperature	-18 to 71 deg C
Housing design	NEMA 3

Dimensions and weight are intentionally excluded from the product fields for this batch.

System role and engineering boundaries

Bently Nevada 24765-01-00 is a dc case-expansion transducer assembly with a 25.4 mm ordered range and no spring return. Its LVDT measures turbine-casing thermal growth relative to the foundation for supervisory monitoring.

1

Measures turbine-casing thermal growth relative to the fixed foundation

2

Uses an enclosed LVDT and conditioned dc output for monitoring

3

Provides the no-spring-return mechanical arrangement for the selected assembly

4

Supports dual-transducer supervision of sliding-foot behavior

ENGINEERING NOTE

Mount 24765-01-00 on the foundation at the engineered case-expansion location and connect its rod to the turbine casing without imposing side load. Establish electrical null and verify the full thermal-growth direction before configuring the 3300 or 3500 monitoring channel.

Industrial application matrix

Four source-supported operating contexts for this exact product.

Steam-turbine startup supervision Tracks casing growth as the machine heats during controlled startup.	Sliding-foot obstruction detection Uses a dual-transducer arrangement to identify unequal case movement that may indicate a jammed foot.
Rotor-to-casing growth comparison Supports observation of differential thermal growth that can precede rubbing.	Case-expansion alarm integration Feeds a compatible 3300 or 3500 position-monitoring channel for display and alarms.

Related-series navigation

Eight verified Apter Power product pages, kept separate from the manufacturer source record.

RELATED APTER POWER SERIES PAGES	
01	330902-00-90-10-01-05 armored proximity probe
02	330901-00-14-10-02-00 NSv proximity probe
03	330909-00-60-10-01-00 armored NSv probe
04	330180-12-05 Proximitor sensor
05	190501-10-00-00 Velomitor CT
06	9200-06-01-11-04 Seismoprobe transducer
07	330780-90-05 11 mm Proximitor sensor
08	3500/50 tachometer module

Navigation links only - not manufacturer evidence for technical parameters.

SOURCE RECORD

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APTER POWER SALES TEAM

WHATSAPP / PHONE
+86 180 3023 5313

EMAIL
sales13@apterpower.com

WEBSITE
www.apterpower.com



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