

PRODUCT DASHBOARD

24765-01-00

Case Expansion Transducer Assembly

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.

BRAND

Bently Nevada

ORIGIN

USA

HS CODE

8537101190

SHIPS FROM

Xiamen, Fujian, China

Complete public-page information view

Technical data dashboard

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

Application and support view

Four engineering use cases plus customer-oriented verification questions.

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.

FAQ SNAPSHOT

1

What do the option codes specify for 24765-01-00?

2

What does 24765-01-00?

3

Where is 24765-01-00?

4

Why is rod alignment important for 24765-01-00?

Related-series navigator

Eight unique and verified Apter Power destinations for this dashboard.

01 3500/05 system rack

02 3500/72M 176449-08 rod position monitor

03 3500/65 145988-02 temperature monitor

04 330500-00-02 Velomitor sensor

05 16925-30 seismic interconnect cable

06 330130-080-02-05 extension cable

07 330104-00-08-10-02-05 proximity probe

08 330930-065-01-05 NSv extension cable

Related pages are navigation aids and are not used as manufacturer parameter sources.

Traceability and commissioning closeout

Confirm 24765-01-00, 25.4 mm range, no-spring construction, foundation bracket, rod alignment, usable travel, +24 Vdc supply, shield and conduit treatment, monitor scaling, null direction and a controlled alarm test.

OFFICIAL MANUFACTURER SOURCE

24765 and 135613 Case Expansion Transducer Systems Datasheet

141598 Rev. K

ENGINEERING RELEASE 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.

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