

PRODUCT
DASHBOARD

135613-01

High-Temperature Case Expansion Transducer

Bently Nevada 135613-01 is the 25.4 mm range version of the high-temperature dc LVDT case-expansion transducer system. It measures turbine-casing thermal growth and interfaces with the documented 3500/45 position-monitoring arrangement.

BRAND

Bently Nevada

ORIGIN

USA

HS CODE

8537101190

SHIPS FROM

Xiamen, Fujian, China

Technical data dashboard

High-Temperature Case Expansion Transducer

TRANSUCER TYPE High-temperature dc LVDT	INPUT POWER +13.5 to +26 Vdc, 30 mA minimum	OUTPUT +1 to +6 Vdc
SCALE FACTOR 0.20 V/mm (5.0 V/in)	LINEAR RANGE 25.4 mm (1.0 in)	ROD LENGTH OPTION 127 mm (5.0 in)
-3 DB FREQUENCY 200 Hz typical	STABILITY 0.125% full-scale	NON-LINEARITY <0.25% full-scale
OPERATING TEMPERATURE -25 to 85 deg C	HOUSING DESIGN NEMA 4	COMPATIBLE POSITION MONITOR 3500/45

Application and support view

Four engineering use cases plus customer-oriented verification questions.

High-temperature turbine case growth

Tracks casing expansion during startup and online thermal operation.

3500/45 position monitoring

Feeds the compatible position monitor used for the high-temperature dual-transducer arrangement.

Thermal growth differential review

Supports comparison of casing movement with rotor growth to identify rub risk.

FAQ SNAPSHOT

1

What measurement range is associated with 135613-01?

Sliding-foot condition trending

Helps identify unequal motion that may indicate an obstructed turbine casing foot.

2

Which monitor is specified for the high-temperature dual arrangement using 135613-01?

3

What output is produced by 135613-01?

4

Why is a ferrite bead relevant to 135613-01?

Related-series navigator

Eight unique and verified Apter Power destinations for this dashboard.

01 3500/64M 140734-05 dynamic pressure monitor

02 3500/22M 288055-01 data interface

03 3500/33 149986-01 relay module

04 3500/25 enhanced Keyphasor module

05 3500/15 133292-01 power supply

06 3500/05 system rack

07 3500/72M 176449-08 rod position monitor

08 3500/65 145988-02 temperature monitor

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

Traceability and commissioning closeout

Confirm 135613-01, the 25.4 mm range and 127 mm rod, NEMA 4 housing, 3500/45 channel assignment, mounting geometry, supply and output polarity, CE ferrite bead, zero, direction and dual-channel startup trend.

OFFICIAL MANUFACTURER SOURCE

24765 and 135613 Case Expansion Transducer Systems Datasheet

141598 Rev. K

ENGINEERING RELEASE NOTE

Install 135613-01 in the approved high-temperature case-expansion housing and route the transducer wiring to minimize RF coupling; CE installations require the documented ferrite bead at the transducer end. Verify the 3500/45 scale, rod geometry and dual-channel direction before startup trending.

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