Bently Nevada Service Manual

24765-02-01

1. Description

24765-02-01

3. Product Information

24765-02-01 | Bently Nevada | Case Expansion Transducer Assembly (DC)

Manufacturer : Bently Nevada

Product No. : 24765-02-01

Product type : Case Expansion Transducer Assembly (dc)

Made in U.S.A

Input Power +24 Vdc, 30 mA minimum

Scale Factor.

24765-02: 0.404 V/mm (10.25 V/in).

Linear Range

24765-02: ± 25.4 mm (±1.00 in).

-3 dB Frequency

24765-02: 15 Hz

Minimum Load Resistance

24765-02 : 100 kΩ

Output

Ripple < 1% full scale

Linearity ± 0.5% full-range

Stability 0.125% full-scale

Scale Factor

Temperature

Coefficient

0.07%/°C (0.04%/°F)

Operating

Temperature

-18 °C to +71 °C

(0 °F to +160 °F).

Storage

Temperature

-54 °C to +93° C

(-65 °F to +200 °F).

Shock 250 g for 11 ms

Vibration 10 g @ 0 to 2 kHz

Construction

Body Series 400 magnetic

stainless steel

Coil Laminated glass epoxy

Lead Wire 25 AWG stranded copper,

Teflon-insulated, 31 cm (12

in)

Mechanical

Height 88.9 mm (3.50 in).

Width 117 mm (4.60 in).

Length 24765-01 and -02 241 mm

(9.50 in)

Weight: 2.3 kg

(5.0lbs)

Thread 6-40 UNF-2B core end

1/4-20 UNC-2A machine

end

Plunger Length As required for application.

Refer to the Dimensional

Drawings section of this

datasheet for fully

Environmental Limits

Operating

Temperature

-25 °C to +85 °C

(-13 °F to +185 °F)

Storage

Temperature

-55 °C to +125 °C

(-67 °F to +257 °F)

Shock 250 g for 11 msVibration 10 g @ 0 to 2 kHz

24765-02-01 Ordering Information

Case Expansion Transducer Assembly (dc)

Linear Range Option : 02= 50.8 mm (2.00 in)

Spring Option : 01 = With spring return

24765 dc LVDT Assembly Electrical Scale Factor : 0.404 V/mm (10.25 V/in).

24765 dc LVDT Assembly Electrical Linear Range : 50.8 mm (2.00 in).

24765 dc LVDT Assembly Electrical -3 dB Frequency : 15 Hz.

Height : 8.89cm (3.50 in).

Width : 11.7 cm (4.60 in).

Length : 24.1cm (9.50 in).

Shipping Weight : 4 Kg