

Bently Nevada 146824-0050 Manual

Brand	Bently Nevada
Product Series	146054 146055
Product Type	Cylinder Pressure Transducer Cable

Description

146824-0050 | Bently Nevada | Cylinder Pressure Transducer Cable

Manufacturer : Bently Nevada

Product No. : 146824-0050

Product Type : Cylinder Pressure Transducer Cable

Made in U.S.A

Length Option : 0050 = 50 ft (15.2 m)

Dimensions (D x W x H) : 3.175 cm x 3.175 cm x 3 cm

Weight : 0.25 Kg

Transducer Characteristics

Measurement

Range

0 to 100/ 250/ 500/ 1000/

2500/ 5000/ 10,000 psia

0 to 6.8/ 17/ 34.5/ 69/172/

345/ 689 bar

Proof (Over)

Pressure 1.5X Full Scale

Burst Pressure 3X Full Scale (2X FS on 689

bar/ 10,000 psia units)

Full Scale

Output 10 ± 0.3 Vdc

Zero 0.5 ± 0.1 Vdc

Power Supply 18 to 30 Vdc

Max. Current < 15 mA

Compensated

Temperature

-40 to 85° C

-40 to 185° F

Thermal Zero

Shift

-1.0 to +2.0 (for 6.8 and 17
bar/ 100 and 250 psia) %FS
-0.5 to +1.5 (for all other
pressure ranges)

Note: Within compensated
temperature range.

Linearity,
Hysteresis,
Repeatability

± 0.3 %FS

Frequency
response

0Hz to 5500 Hz ± 1 dB

Operating

Temperature

-40 to 85 (electronics
housing) °C

-40 to 150 (sensor head) °C

-40 to 185 (electronics
housing) °F

-40 to 302 (sensor head) °F

Overvoltage

Category II

Weight 250 g (0.55 lbm)

Sensor Head 150 g (0.33 lbm)

Dimensions See diagram

Materials

Gold plated, per MIL-G-45204

Type III Grade A, C-276

welded to a 316L stainless
steel body. (patent pending)

Humidity 95% condensing on exposed
surfaces excluding connector

Body Designed to meet IP67

Operating

Temperature

Dependent upon O-ring
material

Hifluor: -26°C to 150 °C (-15 °F
to 302 °F)

Ethylene Propylene:

-40°C to 150 °C (-40 °F to 302
°F)

Pressure

Media

Fluid media compatible with
C-276 and either Hifluor or
Ethylene Propylene o-ring
material (common media

www.AutoDCSTech.com

below)

Pollution

Degree 2

Maximum Use

Altitude 2000 meters above sea level

O-rings

Hifluor

(black)

Hydrogen sulfide, sulfuric acid,
butane, fuel oil, petroleum oil,
turbine oil, propane, propylene,
butylenes, and natural gas.

Ethylene

Propylene

(purple)

Ammonium hydroxide,
anhydrous ammonia

Mounting

Torque 68 N-m (50 lbf-ft)

Compliance and Certifications

FCC

This device complies with part 15 of the
FCC Rules. Operation is subject to the
following two conditions:

I This device may not cause harmful
interference.

I This device must accept any
interference received, including
interference that may cause
undesired operation.

EMC

EN 61326-1

EMC Directive 2014/30/EU

RoHS

RoHS Directive 2011/65/EU

ATEX

EN 60079-01

EN 60079-07

EN 60079-11

EN 60079-15

ATEX Directive 2014/34/EU

ATEX/IECEX

II 1 G Ex ia IIC T4 Ga

II 3 G Ex nA IIC T4 Gc

T4 @ Ta = -40°C to +85°C

cNRTLus

Ex ia IIC T4 Ga;

www.AutoDCSTech.com

Class I, Zone 0, AEx ia IIC T4 Ga;
Class I, Division 1, Groups A, B, C & D, T4
Ex nA IIC T4 Gc;
Class I, Zone 2, AEx nA IIC T4 Gc;
Class I, Division 2, Groups A, B, C & D, T4
Ex ec IIC T4 Gc;
Class I, Zone 2, AEx ec IIC T4 Gc;
Class I, Division 2, Groups A, B, C & D, T4
T4 @ Ta = -40 °C to 85 °C

www.AutoDCSTech.com