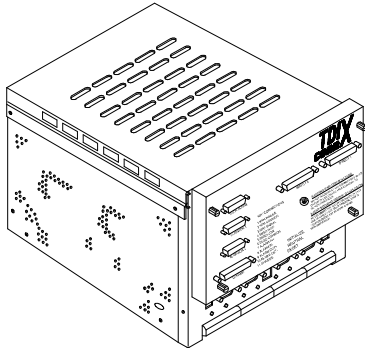


# TDIXconnX

## Bently Nevada™ Asset Condition Monitoring

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### Description

TDIXconnX™ allows connection of our Bently Nevada and other instrumentation systems without pre-engineered Data Manager® static and dynamic connectors to our TDIX and TDXnet™ communications processor. It attaches directly to the Communications Processor.

### Notes:

1. When connection to SDIX/DDIX communication processors is desired, a modified version of TDIXconnX is available. Consult the factory.
2. 3300 monitors with older style backplanes have static and dynamic connectors, but they are not directly compatible with TDXnet, TDIX, or SDIX/DDIX communications processors. The use of TDIXconnX or a backplane system upgrade is required. Consult the factory.

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## Specifications

### Power

No external power required. Power supplied by TDIX/TDXnet.

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### Input

#### Direct Inputs

#### Signal Range:

1 to 5 V, 0 to 5 V, 0 to 10 V, 2 to 10 V, and 4 to 20 mA Current

#### Maximum Input:

±15 V Peak

#### Accuracy at 25 °C (77 °F):

For 10V Scale:

±0.32% Full-scale ±0.09% of reading

For 5V Scale (includes 4-20 mA):

±0.64% Full-scale ±0.09% of reading

#### Accuracy over Temperature Range:

For 10V Scale:

±0.63% Full-scale ±0.10% of reading

For 5V Scale (includes 4-20 mA):

±1.26% Full-scale ±0.10% of reading

Common Mode Rejection Ratio:

greater than 44 dB

#### Input Impedance

Normal Mode:

400 k  $\Omega$  nominal

4-20 mA Mode:

250  $\Omega$  maximum loop load

### Alarm Inputs

dc Min input for Alarm Indication:

3.60 V

ac Min input for Alarm Indication:

3.00 Vrms  
(50 or 60 Hz)

Resistance for Alarm Indication:

12.0 k  $\Omega$  max

dc Max input for No Alarm:

0.90 V

ac Max input for No Alarm:

1.68 Vrms  
(50 or 60 Hz)

Resistance for No Alarm:

456 k  $\Omega$  min

Input Impedance:

100 k  $\Omega$  nominal

Common Mode Voltage Range:

4.8 Vdc,  
3.4 Vrms

Maximum Input Voltage:

100 V Peak

Contact Voltage output:

5.0 Vdc, nominal

Contact  
Voltage Source  
Impedance:

1.0 k  $\Omega$

### Rack Alarm Inputs

dc Min input for  
Alarm  
Indication:

2.1 V

ac Min input for  
Alarm  
Indication:

4.7 Vrms  
(50 or 60 Hz)

Resistance for  
Alarm  
Indication:

7.5 k  $\Omega$  max

dc Max input  
for No Alarm:

1.2 V

ac Max input  
for No Alarm:

3.0 Vrms  
(50 or 60 Hz)

Resistance for  
No Alarm:

28 k  $\Omega$  min

Dynamic Input  
Impedance:

3.09 k  $\Omega$  nominal

Contact  
Voltage output:

5.0 Vdc nominal

Contact  
Voltage Source  
Impedance:

220  $\Omega$  nominal

Input voltage  
range:

27 V Peak Max

### Dynamic Inputs

Input Voltage  
range:

$\pm 25$  V

ac input  
Voltage range:

25 V pp

Input  
impedance:

51 k  $\Omega$

Frequency  
Range:

dc to 20 kHz

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### Environmental Limits

Operating  
Temperature:

0°C to +65°C (+32°F to +149°F)

Storage  
Temperature:

-40°C to +85°C (-40°F to +185°F)

Humidity:

0 to 95%, noncondensing

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### Physical

Size:

(HxWxD)

216 mm x 127 mm x 32 mm

(8.5 in x 5.0 in x 1.25 in)

Weight:

0.33 kg (0.73 lb)

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### Ordering Information

#### TDIX Communication Processor

TDIXconnX can be ordered by specifying the B-04 option of TDIX.

**2150/00 -AXX-04-CXX-DXX- EXX-FXX-GXX-HXX-IXX-JXX \***

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#### TDXnet Communication Processor

TDIXconnX can be ordered by specifying the B-04 option of TDXnet.

**2155/00 -AXX-04-CXX-DXX- EXX-FXX-GXX-HXX-IXX-JXX \***

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**TDIXconnX**

A TDIXconnX can be ordered separately by using the following part number.

**130914-01 \***

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**TDIXconnX**

\* These part numbers do not include the necessary cable assemblies. Use 2150/05 to order the TDIXconnX cable assemblies.

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**TDIXconnX Cable Assemblies****2150/05 -AXX-BXX-CXX-DXX-EXX****A: Pigtail Cable Assemblies**

Include pigtail cables with "D" style connector on one end, individual wires on other. The additional 25-pin dynamic cable included in options: 03, 04, 05, 06 is a 3.05 metres (10 feet) "D" style to "D" style connector cable.

- 00** None
- 01** 2 each 25-wire and 1 (ea) 15-wire
- 02** 3 (ea) 25-wire and 2 (ea) 15-wire
- 03** 1 (ea) 25-wire and 1 (ea) 15-wire plus 1 (ea) 25-wire dynamic cable
- 04** 2 (ea) 25-wire and 2 (ea) 15-wire plus 1 (ea) 25-wire dynamic cable
- 05** 1 (ea) 25-wire and 1 (ea) 15-wire plus 1 (ea) 25-wire dynamic cable and 1 (ea) 15-wire static cable
- 06** 2 (ea) 25 wire and 2 (ea) 15-wire plus 1 (ea) 25-wire dynamic cable and 1 (ea) 15-wire static cable.

**B: Transition Connector Adapters**

These are adapters between "D" style connectors and individual screw terminals.

- 00** None
- 01** 1 (each) 15-pin
- 02** 2 (ea) 15-pin
- 03** 3 (ea) 15-pin
- 04** 1 (ea) 15-pin and 1 (ea) 25-pin
- 05** 2 (ea) 15-pin and 2 (ea) 25-pin
- 06** 3 (ea) 15-pin and 3 (ea) 25-pin

**C: 1800 12-Position Interface**

Necessary when interfacing to 1800 Dynamic Transmitor Module 12-Position backplane mounted version.

- 00** None
- 01** 1 (each) 12-P Interface (no cables included)
- 02** 2 (ea) 12-P Interface (no cables included)
- 03** 1 (ea) 12-P Interface plus 2 (ea) 25-wire dynamic and 1 (ea) static cable 3.05 metre (10 ft)
- 04** 2 (ea) 12-P Interface plus 4 (ea) 25-wire dynamic and 2 (ea) static cable 3.05 metre (10 ft)

**D: 1800 6-Position Interface**

Necessary when interfacing to 1800 Dynamic Transmitor Module 6-position backplane mounted version.

- 00** None
- 01** 1 (ea) 6-P Interface (no cables included)
- 02** 2 (ea) 6-P Interface (no cables included)
- 03** 1 (ea) 6-P Interface plus 2 (ea) 25-wire dynamic and 1 (ea) static cable 3.05 metre (10 ft)
- 04** 2 (ea) 6-P Interface plus 4 (ea) 25-wire dynamic and 2 (ea) static cable 3.05 metre (10 ft)
- 05** 3 (ea) 6-P Interface (no cables included)
- 06** 4 (ea) 6 P Interface (no cables included)
- 07** 3 (ea) 6-P Interface plus 6 (ea) 25-wire dynamic and 3 (ea) static cable 3.05 metre (10 ft)
- 08** 4 (ea) 6-P Interface plus 8 (ea) 25-wire dynamic and 4 (ea) static cable 3.05 metre (10 ft)

**E: "D" style Connector Kit**

"Build-your-own" connector assemblies.

- 00** None
- 01** 2 (ea) 25-pin connector kits
- 02** 2 (ea) 25-pin and 3 (ea) 15-pin connector kits
- 03** 4 (ea) 25-pin and 2 (ea) 15-pin connector kits
- 04** 8 (ea) 25-pin and 4 (ea) 15-pin connector kits

## Accessories

### Individual Cables and Accessories

The following individual items included in the cable assemblies specified in part number **2150/05** are also available to order separately.

**131779-01**

Pigtail cable. 15-wire cable 4.58 m (15 ft) long used for Alarm/OK or Rack Alarm connections.

**131780-01**

Pigtail cable. 25-wire cable 4.58 m (15 ft) long used for Direct (Recorder Output) and Dynamic signals.

**131781-01**

1800 12-Position Rack to TDIXconnX Interface.

**131895-01**

1800 6-Position Rack to TDIXconnX Interface.

**00520853**

Transition Connector Adapter. Allows you to connect individual wires into a 25-pin "D" style male connector. Used for Direct and Dynamic signals.

**00520854**

Transition Connector Adapter. Allows you to connect individual wires into a 15-pin "D" style male connector. Used for Alarm/OK or Rack Alarm connections.

**02290160**

25-wire "D" style to "D" style cable. 3.05 m (10 ft) cable used for Direct and Dynamic signals when connecting 1800 systems to the TDIXconnX Interface, and for connection to Dynamic signals on Data Manager compatible

**02290163**

monitoring system backplanes.

15-wire "D" style to "D" style cable. 3.05 m (10 ft) cable used for OK signals when connecting 1800 systems to the TDIXconnX Interface.

**132097-01**

15-pin "D" style "Build-your-own" connector kit, for use with existing cables

**132098-01**

25-pin "D" style "Build-your-own" connector kit, for use with existing cables.

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**2150/01-01**

TDIX Installation Manual and TDIX Initialization Software

**Notes:**

1. When ordering one or more TDIX Communications Processors, one copy of 2150/01-01 is required.
2. The Windows version of the Initialization Software is included with Data Manager 2000 Software

**131781-01**

TDIXconnX 1800 12 PIF

**131895-01**

TDIXconnX 1800 6 PIF

**00520853**

Connector adapter 25-pin

**00520854**

Connector adapter 15-pin

**132097-01**

Connector Kit 25-pin

**132098-01**

Connector Kit 15-pin

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**Spare Cables**

**131779-01**

TDIXconnX cable assembly

**131780-01**

TDIXconnX direct/dynamic cable

**02290160**

3300 rack dynamic cable

## How to Choose your Cable

HOW TO CHOOSE YOUR CABLES:										
TDIXconnX cable assemblies according to which existing system you have:										
IF your existing rack(s) is either:				WITH a Data Manager Compatible Backplane	AND the total number of channels is	THEN you should order one each of Part Number: 2150/05-				
7200 series	or	9000 series	or			3300 series	AA	BB	CC	DD
1		1			NO	12 or less	-01	-00	-00	-00
1 or 2		1 or 2			NO	more than 12	-02	-00	-00	-00
1					YES	12 or less	-05	-00	-00	-00
		1		1	YES	12 or less	-03	-00	-00	-00
1					YES	more than 12	-06	-00	-00	-00
		1		1	YES	more than 12	-04	-00	-00	-00
If you have 1800 Transmitter Module(s):										
12-Position housing		6-Position housing								
1							-00	-00	-03	-00
2							-00	-00	-04	-00
			1				-00	-00	-00	-03
			2				-00	-00	-00	-04
			3				-00	-00	-00	-07
			4				-00	-00	-00	-08
Data Manager <sup>®</sup> compatible racks are monitoring systems equipped with 25-pin connectors that can be connected to Dynamic Data Manager <sup>®</sup> and Transient Data Manager <sup>®</sup> Communications Processors.										

# Dimensional Drawing

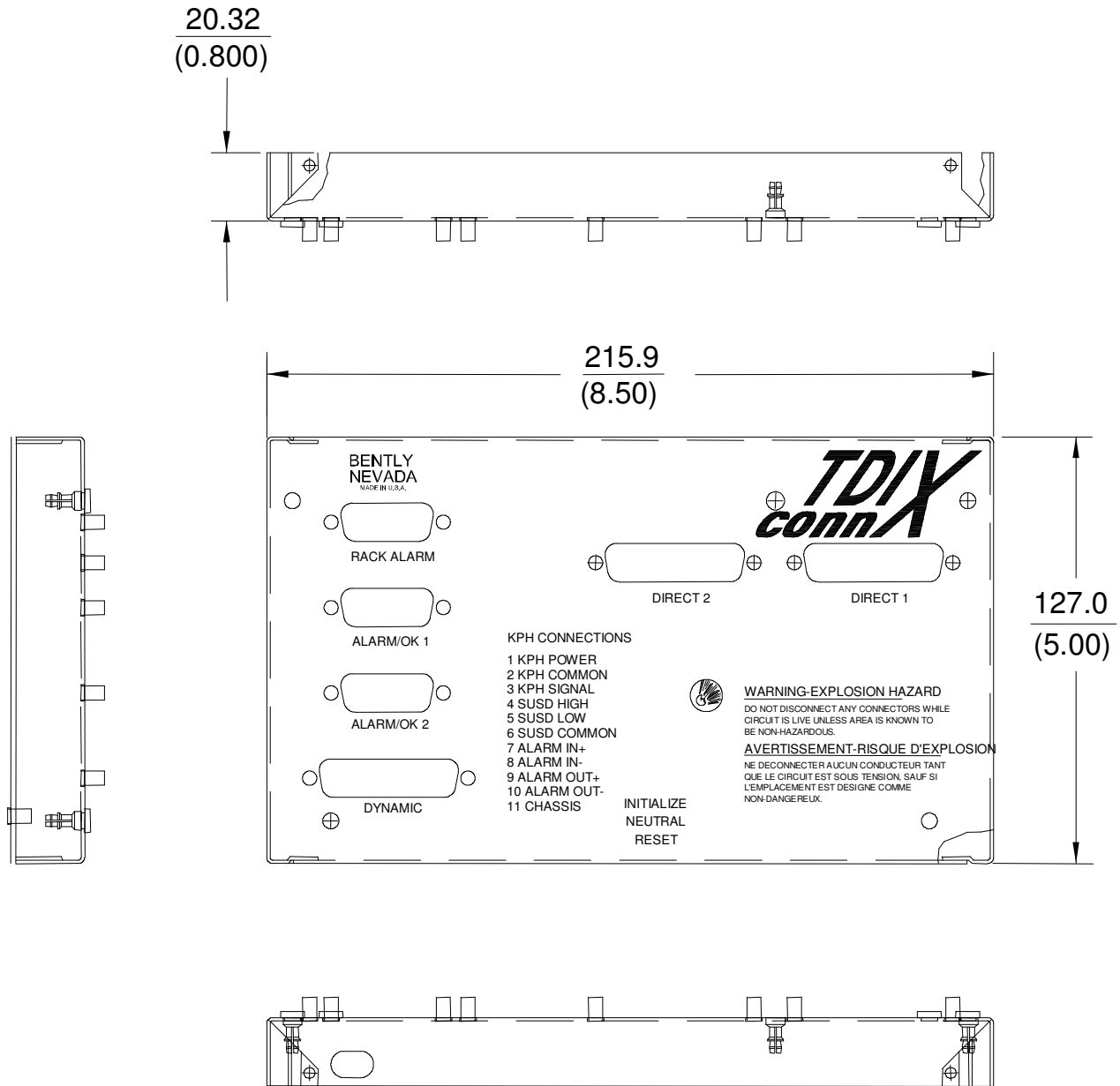


Figure 1: Dimensional drawing for the TDIXconnX™

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