

INDUSTRIAL AUTOMATION PRODUCT

330425-01-00

25 mV/g acceleration transducer

Bently Nevada 330425-01-00 is a 25 mV/g piezoelectric acceleration transducer with a 1/4-28 UNF integral mounting stud and no agency approval option. It measures machine-casing acceleration for supported monitoring systems.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
Complete model	330425-01-00
Product role	25 mV/g acceleration transducer
System family	330400 and 330425 Accelerometers
Country of origin	USA

DOCUMENT SCOPE

Exact identity, manufacturer-supported technical data, installation checks, applications, precautions and controlled verification records.

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330425-01-00

Technical Specifications

PARAMETER	VERIFIED VALUE
Sensitivity	25 mV/g ±5%
Acceleration range	75 g peak
Frequency response	10 Hz to 15 kHz ±3 dB
Amplitude linearity	±1% to 75 g peak
Input voltage	-24 ±0.5 V DC
Bias current	2 mA nominal
Output bias voltage	-8.5 ±0.5 V DC
Mounting thread	1/4-28 UNF integral stud
Agency approval	None
Maximum cable length	305 m without signal degradation

Model-Specific Engineering Note

ENGINEERING BOUNDARY

Install 330425-01-00 on a prepared bearing housing or casing and preserve its sensitive-axis orientation. Verify the -24 V DC supply, output bias and channel response after applying the documented mounting practice.

Pre-Installation Checks

NO.	REQUIRED CHECK
1	Verify the complete 330425-01-00 marking before work.
2	Record the sensing axis and machine-point tag.
3	Prepare a clean and flat mounting surface.
4	Tighten the integral stud using the published installation practice.
5	Verify the -24 V DC supply and 2 mA nominal bias current.

System Role and Architecture

Bently Nevada 330425-01-00 is a 25 mV/g piezoelectric acceleration transducer with a 1/4-28 UNF integral mounting stud and no agency approval option. It measures machine-casing acceleration for supported monitoring systems.

FUNCTION 1
25 mV/g acceleration sensitivity

FUNCTION 2
75 g peak measuring range

FUNCTION 3
1/4-28 integral mounting stud

FUNCTION 4
Case-isolated sensor construction

Common Applications

APPLICATION	ENGINEERING CONTEXT
High-range casing acceleration	Measures acceleration on bearing housings or machine structures.
Reciprocating machinery monitoring	Supports configured acceleration channels on compatible monitors.
Machine protection input	Supplies a proportional signal to documented Bently Nevada systems.
Sensor-point restoration	Replaces the exact stud and sensitivity configuration at an existing point.

CONTROLLED ACCEPTANCE DUTY

Confirm identity, physical interface, companion hardware, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Verify the complete 330425-01-00 marking before work.
2	Record the sensing axis and machine-point tag.
3	Prepare a clean and flat mounting surface.
4	Tighten the integral stud using the published installation practice.
5	Verify the -24 V DC supply and 2 mA nominal bias current.
6	Inspect the connector and shield termination.
7	Confirm output bias before enabling alarms.
8	Prove polarity, noise and acceleration response before release.

Model-Specific FAQ — Part 1

QUESTION	ANSWER
What sensitivity is specified for 330425-01-00?	The nominal sensitivity is 25 mV/g ±5%.
What peak range is documented for 330425-01-00?	The range is 75 g peak.
Which mounting thread is ordered on 330425-01-00?	Option 01 is a 1/4-28 UNF integral stud.
What input voltage is required by 330425-01-00?	The specified input is -24 ±0.5 V DC.

Model-Specific FAQ — Part 2

QUESTION	ANSWER
What output bias should be measured from 330425-01-00?	The specified bias is -8.5 ±0.5 V DC.
What frequency band is published for 330425-01-00?	The ±3 dB band is 10 Hz to 15 kHz.
Does this order code include hazardous-area approval for 330425-01-00?	No. The final 00 option specifies no agency approval.
What closes commissioning of 330425-01-00?	Record mounting, axis, supply, bias, polarity, noise and a controlled response test.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Bently Nevada 190501-00-00-04	Open product page
Bently Nevada 190501-02-99-00-711480	Open product page
Bently Nevada 190501-04-00-00	Open product page
Bently Nevada 190501-04-00-04	Open product page
Bently Nevada 190501-12-00-02	Open product page
Bently Nevada 190501-12-00-04	Open product page
Bently Nevada 190501-12-99-04	Open product page
Bently Nevada 200150-02-cn	Open product page

MANUFACTURER SOURCE RECORD

330400 and 330425 Accelerometer Acceleration Transducers Datasheet
Baker Hughes publication 141638 Rev. AB

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