

FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Bently Nevada 330425-01-05
High-temperature Accelerometer

DASAC and DASAC Accelerometer Attachment Transducers		4000 Series	
Environmental Limits		Cable Material	304 stainless steel
Operating Temperature	-55°C to +125°C (-67°F to +257°F)	Weighting	0.1 g (0.1 g) typical
Shock	4000 series (DASAC) g peak, 1000 series (DASAC) g peak	Mounting Angle	Any orientation
Relative Humidity	90% noncondensing non-humidified Class 2		
Integration	+/-10 mV/counts (DASAC) +/-10 mV/counts (DASAC)		
Interference Susceptibility	IEC 61000-4		
RF Shielding	IEC 61000-4		
Maximum tilt altitude	30° (30°)		
Outdoor use	Standard installation for outdoor use. Predefined enclosure with weatherproofing is provided for outdoor protection for 1 meter of continuous rain, temperature, and humidity.		
Physical			
Weight (DASAC)	38 g (0.13 oz) typical		
Dimensions	22 mm x 22 mm x 10 mm (0.87 in x 0.87 in x 0.39 in)		
Mounting	22 mm x 22 mm, 4-hole, including mounting area		
Connector	1 g pin (IEC) - 6 pin receptacle		
Weight	165 g typical (DASAC)		
Mounting	10 mm x 10 mm		
Temperature	41 mm x 28.8 mm		

PRODUCT	330425-01-05
FAMILY	330400 and 330425 Accelerometers
FUNCTION	High-temperature Accelerometer
STATUS	Verify exact configuration

Prepared by Amikon Limited from Bently Nevada 330400 and 330425 Accelerometer Acceleration Transducers Datasheet 141638 Rev. AB, relevant specification, ordering and installation pages. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Transducer model	330425 accelerometer
Mounting thread option	01: 1/4-28 UNF integral stud
Agency approval option	05: CSA, ATEX and IECEx approvals
Sensitivity	25 mV/g ±5%
Acceleration range	75 g peak
Frequency response	10 Hz to 15 kHz ±3 dB
Operating temperature	-55 to +121 °C

02 MOUNTING AND CONNECTION

- Confirm the complete model and approval markings.
- Prepare a clean, flat mounting surface.
- Torque the integral mounting stud to 4.1 N m.
- Use the compatible three-socket interconnect cable.
- Protect cable routing from heat and mechanical damage.

OFFICIAL INSTALLATION REFERENCE

330400 and 330425 Accelerometer Acceleration Transducers
Datasheet

141638 Rev. AB

Environmental Limits

Operating and storage temperature	-55°C to +121°C (-67°F to +250°F)
Shock Survivability	49,050 m/s ² (5000 g) peak, maximum.
Relative humidity	100% condensing, non-submerged. Case is hermetically sealed.
Magnetic Field Susceptibility	<2.21 mm/s ² /gauss (225 mg/gauss) [50 gauss, 50-60Hz].
IP Rating	Equivalent to an IP 68 (Dust tight and watertight). Please note that this is for the sensor only and does not apply to the cable.
Maximum Use Altitude	2000 meters above sea level
Outdoor Use	Standard installation for these sensors is in a protected enclosure with wiring protected in conduit. Splash boots can be added for additional protection if needed by customer's requirements.

Case Material	316L stainless steel
Weight (no cable)	100 g (3.5 oz), typical
Mounting Angle	Any orientation

Physical

Weight (no cable)	99 g (3.5 oz), typical
Diameter	23 mm (0.93 in).
Height	59 mm (2.3 in), including mounting stud.
Connector	3-pin MIL-C-5015 Receptacle 316L stainless steel
Mounting Surface	32 minch rms.
Mounting Torque	4.1 N-m (3.0 ft-lb).

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CABLE ROUTING AND CONNECTION

- Prepare a clean, flat mounting surface.
- Torque the integral mounting stud to 4.1 N m.
- Use the compatible three-socket interconnect cable.
- Protect cable routing from heat and mechanical damage.
- Verify bias voltage and signal response before service.

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INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Confirm normal indications and fault-contact state after commissioning.
- Record the installed order number and baseline operating condition.

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CONTROLLED DOCUMENTS

Official source	Bently Nevada 330400 and 330425 Accelerometer Acceleration Transducers Datasheet 141638 Rev. AB, relevant specification, ordering and installation pages
Product record	330425-01-05
Manufacturer	Bently Nevada
Support	INFO@AMIKON.CN