

FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Bently Nevada 200151-XX-XX-XX MOD:323357-15-03-00

Accelerometer Interface Standard Cable

[illegible]

PRODUCT	200151-XX-XX-XX MOD:323357-15-03-00
FAMILY	200150, 200155 and 200157 Accelerometers
FUNCTION	Accelerometer Interface Standard Cable
STATUS	Verify exact configuration

Prepared by Amikon Limited from Bently Nevada 164986 Rev. Y, series reference only. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Conductor count	4
Conductor size	22 AWG
Shield construction	Braided shield with drain wire; minimum 85% coverage
Outer jacket	PVC
Coupling nut finish	Nickel-plated in the standard cable construction
Operating temperature	-20 to +100 deg C
Connector sealing	IP67 at the connection to the transducer and mating hardware

02 MOUNTING AND CONNECTION

- Verify the complete MOD identity and controlled wiring before installation.
- Confirm the supplied cable length, armor and coupling nuts from the identified assembly or modification drawing.
- For standard 200151 routing, respect the published minimum bend radius of 63.5 mm.
- Do not flex or bend the standard cable below -20 degrees C.
- Inspect molded connectors and mating hardware before relying on the published connection seal.

MANUFACTURER INSTALLATION REFERENCE

200150, 200155 and 200157 Accelerometers
Datasheet

164986 Rev. Y

Relative Humidity	100% relative, condensing, non-submerged
Physical	
Size (Hex x Height)	17.5 mm x 45.7 mm (11/16 in x 1.8 in)
Weight	58 g (2.0 oz), typical
Mounting Thread	3/8-24 female
Mounting Torque	2.7 to 6.8 N•m (2 to 5 ft•lbf)
Sensing Element	Ceramic
Sensing Geometry	Shear
Housing and connector material	
200150	316L stainless steel
200155	316L stainless steel
200157	316L stainless steel
Electrical Connector (Top)	5-pin 1/2-20

Cables

Operating Temperature Range	–20°C to +100°C (–4°F to +212°F) These cables may be used at lower temperatures if the installation prevents the cable from flexing or bending. Flexing these cables at temperatures below –20°C (–4°F) may damage the cables.
Construction	4-conductor, 22 AWG with braided shield and drain wire (85% coverage, minimum), PVC outer jacket. Nickel-plated coupling nuts.
Seal	Connectors provide an IP67 seal to transducers and mating hardware. Connectors are molded to the cable. The addition of DC4 electrical insulating compound in the connectors provides additional protection against moisture during a thermal shock.
Minimum Bend Radius	
200151	63.5 mm (2.5 in)
200152	73.7 mm (2.9 in)
Maximum Cable Length	25 m (82 ft) Custom products may be able to provide longer cable lengths for the 200150 and 200157 accelerometers.

Adhesive (see Mounting Hardware Options)

Temperature Range	–55°C to +121°C (–67°F to +250°F)
Cure Time	24 hours

04

CABLE ROUTING AND CONNECTION

- Confirm the supplied cable length, armor and coupling nuts from the identified assembly or modification drawing.
- For standard 200151 routing, respect the published minimum bend radius of 63.5 mm.
- Do not flex or bend the standard cable below -20 degrees C.
- Inspect molded connectors and mating hardware before relying on the published connection seal.
- Follow the full installed-system instructions and the sensor-specific cable-length limit.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Check the exact configuration against the controlled site requirements.
- Verify the measurement using the complete equipment instructions.
- Record the complete model and the installed measurement arrangement.

06

CONTROLLED DOCUMENTS

Official source	Bently Nevada 164986 Rev. Y, series reference only
Product record	200151-XX-XX-XX MOD:323357-15-03-00
Manufacturer	Bently Nevada
Support	INFO@AMIKON.CN