TQ902-011 111-902-000-011 A1-B1-C42-D2-E10000-F2-G9800-H10

Proximity Sensor

EXACT PUBLISHED IDENTITY

Vibro-Meter TQ902-011 111-902-000-011 A1-B1-C42-D2-E10000-F2-G9800-H10 is a standard-mount proximity sensor for a TQ9xx/IQS900 measurement chain. Its confirmed complete identifier is retained exactly, while only option meanings supported by the manufacturer’s published tables are stated as technical values.

Technical snapshot

Product line	Vibro-Meter TQ902 standard-mount proximity sensor
Measurement principle	Non-contact eddy-current displacement sensing
Environment option A1	Standard environment
Body thread option B1	M10 × 1
Body length option C42	42 mm
Unthreaded length option D2	2 mm
Integral cable option E10000	10000 mm ±1000 mm
Protection option F2	Flexible stainless-steel hose with FEP sheath; no IP172 connector

Verified related ApterPower product pages

Vibro-Meter TQ412 S3960 111-412-000-013

Vibro-Meter AF70982 111-412-000-012

Engineering data

Verified exact-model values from official manufacturer evidence

Published characteristics

Total system length option H10	10 m
Supported linear measurement ranges	2 mm or 4 mm with the configured IQS900
Frequency response	DC to 20 kHz (–3 dB)
Sensor operating temperature	–40 to +180 °C
Sensor head protection	IP68 according to IEC 60529
Sensor construction	PPS tip and AISI 316L stainless-steel body
Integral cable	FEP-covered 70 Ω coaxial cable, 3.6 mm diameter
Connector	Self-locking miniature coaxial cable plug

EVIDENCE BOUNDARY

Confirm the complete TQ902-011 111-902-000-011 A1-B1-C42-D2-E10000-F2-G9800-H10 marking and the installed manufacturer configuration record before replacement.

Verified related ApterPower product pages

Vibro-Meter CA134 144-134-000-612

Vibro-Meter GSI127 244-127-000-017 A1-B02

System role and applications

Documented contexts without configuration inference

TURBINE SHAFT MONITORING

Measures documented radial shaft displacement or axial position without contacting the rotating target.

COMPRESSOR PROTECTION

Supplies the sensor-side signal for approved machinery-protection and condition-monitoring channels.

PUMP AND ALTERNATOR SUPERVISION

Tracks metallic-shaft gap changes in calibrated TQ902/IQS900 measurement chains.

HIGH-TEMPERATURE SENSOR LOCATIONS

Supports installed sensor points whose operating conditions remain within the published –40 to +180 °C range.

Integration control

The sensor tip contains an eddy-current coil within a PPS high-temperature thermoplastic tip crimped to an AISI 316L stainless-steel body. When paired with an IQS900 and the documented cabling, the TQ902 chain supports relative-vibration and axial-position measurements with a DC to 20 kHz response. Maintain the complete supplied marking exactly and use the installed manufacturer record when reconciling cable-protection details, total-system length and replacement hardware.

Technical questions

Complete answers tied to the exact published model

Where does Vibro-Meter TQ902-011 111-902-000-011 A1-B1-C42-D2-E10000-F2-G9800-H10 fit in a measurement chain?

The TQ902-011 sensor forms the standard-mount front end of a calibrated TQ9xx proximity chain used with compatible cabling and an IQS900 signal conditioner.

Which thread and body length are specified for TQ902-011 111-902-000-011 A1-B1-C42-D2-E10000-F2-G9800-H10?

This configuration uses an M10 × 1 thread under B1 and a 42 mm body length under C42.

How much unthreaded length is present on TQ902-011 111-902-000-011 A1-B1-C42-D2-E10000-F2-G9800-H10?

Option D2 defines a 2 mm unthreaded section on the ordered sensor body.

What integral cable is documented for TQ902-011 111-902-000-011 A1-B1-C42-D2-E10000-F2-G9800-H10?

Option E10000 supplies a 10000 mm FEP-covered 70 Ω coaxial cable with a published ±1000 mm tolerance.

Which protective construction accompanies TQ902-011 111-902-000-011 A1-B1-C42-D2-E10000-F2-G9800-H10?

Option F2 identifies a flexible stainless-steel hose with an FEP sheath and no IP172 connector protector.

What temperature range applies to the TQ902-011 sensor?

The TQ902-011 sensor is specified for operation from –40 to +180 °C, while its head and integral cable assembly carries an IP68 rating.

Which measurement ranges can a TQ902-011 chain support?

A matched TQ902-011 and IQS900 chain supports a 2 mm or 4 mm linear range according to the conditioner configuration.

How should TQ902-011 111-902-000-011 A1-B1-C42-D2-E10000-F2-G9800-H10 be accepted after installation?

Technicians should verify the complete identity, mechanical gap, cable and connector condition, matched conditioner configuration, diagnostics and every affected machinery-monitoring function.

Product precautions

Eight controlled checks before return to service

1. Record the entire TQ902-011 order and option string exactly as supplied.
2. Place the machine and affected monitoring or protection functions in the approved maintenance state.
3. Verify the M10 × 1 thread, 42 mm body and 2 mm unthreaded section before mounting.
4. Protect the PPS sensor tip and set the initial gap using the approved target and procedure.
5. Route the integral cable and FEP-sheathed flexible protection without sharp bends or tensile loading.
6. Keep the self-locking miniature coaxial connector clean, dry and electrically insulated.
7. Reconcile the complete G9800 marking and H10 chain record with the installed manufacturer documentation.
8. Prove gap output, vibration response, diagnostics and every affected protection channel before release.

Manufacturer evidence used

- Parker Meggitt TQ902/TQ912, EA902 and IQS900 proximity measurement chain data sheet, document DS 265-101.
- Parker Meggitt TQ902 mechanical drawing and A–H ordering-code table.
- Parker Meggitt proximity measurement chains using TQ9xx sensors installation guidance.

Verified related ApterPower product pages

Vibro-Meter CA303 144-303-000-011

Vibro-Meter CA306 144-306-000-321

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