PR6424/01 CS CON021

16 mm Eddy-Current Sensor and Signal Converter Assembly

A field-work document for evidence capture, controlled installation, commissioning and handover. Product specifications remain in the separate View PDF and manufacturer excerpt.

PR6424/01 CS CON021 sensing-chain identity

Pre-work evidence pack

Exact supplied marking	PR6424/01 CS CON021 — photograph every character and label
Installed asset reference	Machine, bearing, channel, cabinet and drawing identifiers
Mechanical witness record	Insertion datum, locknut or bracket position, connector orientation and route
Companion identities	Probe, cable, sensor, interface, monitor or terminal designations as applicable
As-found electrical record	Static bias, gap, continuity or channel state captured by the approved method
Work-control basis	Isolation, permit, site procedure, applicable drawing and responsible person

Installed relationship to preserve

Machine target, installed sensor, converter, receiving channel and accepted runout baseline



Evidence-capture instruction

Record sensor insertion, locknut position, target condition, cable route, converter terminals, static output and slow-roll baseline.

Readiness gate

Identity gate	Exact item and installed record agree before work begins.
Interface gate	Mechanical and electrical endpoints are identified and accessible.
Safety gate	Approved isolation and stored-energy controls are active.
Evidence gate	As-found photographs and readings are retained.

Target, gap and converter readiness

Controlled removal sequence

01 Review	Confirm the work pack, exact identity and approved isolation boundary.
02 Capture	Record sensor insertion, locknut position, target condition, cable route, converter terminals, static output and slow-roll baseline.
03 Mark	Apply temporary labels and witness marks that do not damage the component.
04 Disconnect	Isolate the channel, label converter wiring, protect the sensing face and withdraw the sensor without cable twist or side load.

05 Protect	Cap open connections, protect sensing or contact surfaces and retain removed hardware by location.
06 Compare	Place the removed and offered items side by side; resolve every difference before installation.

Handling controls

No cable pulling

Handle connector bodies and supported component sections; never use a lead or armor as a lifting point.

No uncontrolled rotation

Prevent twisting through connectors, ferrules, probe leads and terminal lugs.

Clean interfaces only

Keep open contacts and sensing faces dry, covered and free of metal particles or process residue.

Preserve the route

Retain clamps, bend locations, separation and strain relief shown by the approved installation.

Stop-work triggers

Unresolved identity difference	Do not substitute an adjacent model or option code.
Damaged interface	Quarantine damaged threads, connectors, armor, cable or protector parts.
Missing baseline	Obtain an approved comparison record before altering the arrangement.

Controlled PR6424/01 CS CON021 chain exchange

Installation sequence

01 Prepare	Clean the work area and verify all retained hardware and companion identities.
02 Position	Reproduce the mechanical datum, restore the exact sensor-converter pairing and set gap from the approved live output.
03 Support	Restore clamps, strain relief, route separation and mechanical protection before energization.
04 Inspect	Confirm no trapped contamination, cable torsion, side load or unsupported connector weight.
05 Static test	Stable converter output, target clearance and slow-roll runout agree with the approved record.
06 Controlled energization	Follow the approved staged procedure and stop on unexpected bias, continuity or channel state.
07 Functional proof	Representative vibration, position, eccentricity or speed response agrees with the accepted machine baseline.
08 Record	Retain final photographs, readings, deviations, approval and release responsibility.

Commissioning worksheet

Installed identity	PR6424/01 CS CON021 / photograph reference: _____
Companion identities	_____
As-found static value	_____ Test condition: _____
As-left static value	_____ Test condition: _____
Functional result	Pass / Hold Evidence reference: _____
Deviation disposition	None / Approved reference: _____

Model-path fault isolation

Gap cannot be set	Compare target geometry, insertion datum, supply voltage and sensor-converter identity.
Static output is unstable	Inspect cable support, converter terminals, target runout and nearby conductive material.
Dynamic response differs	Re-check target material, channel scaling and the retained slow-roll baseline.

Static and dynamic response acceptance

Acceptance record

Identity accepted	Complete supplied marking agrees with the released work order and photographs.
Mechanical acceptance	Installed datum, route, support, connector condition and protection are approved.
Electrical acceptance	Stable converter output, target clearance and slow-roll runout agree with the approved record.
Functional acceptance	Representative vibration, position, eccentricity or speed response agrees with the accepted machine baseline.
Documentation accepted	As-found and as-left evidence, deviations and approval basis are retained.

Handover package

Photographs	Complete marking, installed position, connection path and final protection
Measurements	Static value, continuity or insulation result and representative functional proof
Configuration record	Companion identities, channel or terminal assignment and approved drawing revision
Release signatures	Technician, reviewer, operations owner and date

Verified related product references

Recommended product	Emerson KJ3222X1-BA1 12P2532X122 VE4033S2B1
Recommended product	Emerson KJ3203X1-BA1 12P3270X032 VE4001S2T2B4
Recommended product	Emerson KJ1501X1-BC3 12P3935X032 VE5009
Recommended product	Emerson PR6424/01 CS CON021
Recommended product	Emerson PR6423/00R-111-CN CON041

Discuss the exact marking and installed relationship with Apter Power.
sales13@apterpower.com | +86 18030235313