Emerson

MMS6210

Dual-Channel Shaft Displacement Monitor

This reference defines the engineering boundary of MMS6210 using manufacturer-authored technical evidence and the exact supplied identity.

System position

Exact identity	System family	Functional role	Release basis
MMS6210	MMS 6000 Machine Monitoring System	Displacement Monitor	Recorded test and diagnostics

Control the identity boundary

Treat MMS6210, its documented Dual-Channel Shaft Displacement Monitor role and the receiving MMS 6000 Machine Monitoring System position as one controlled identity.

IDENTITY / RESOURCE	DOCUMENTED VALUE
Exact model	MMS6210
Documented designation	Dual Channel Shaft Displacement Monitor
Measurement channels	2
Sensor family	PR 642x eddy-current measurement chains
Supply inputs	Two redundant inputs, diode-decoupled
Supply voltage	18 to 31.2 V DC

Technical evidence record: EPRO-authored MMS 6210 dual-channel shaft-displacement monitor datasheet

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MMS6210

Interfaces and integration

Trace the installed signal path

Integration review proceeds through mechanical, electrical, configuration and diagnostic interfaces before a replacement decision is released.

Exact model	MMS6210
Documented designation	Dual Channel Shaft Displacement Monitor
Measurement channels	2

Define the receiving position

The host review links the physical slot, companion hardware and retained engineering revision to the offered item.

Host	MMS 6000 Machine Monitoring System
Primary role	monitoring two shaft-displacement
Acceptance	Recorded diagnostic response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Model, designation and complete label
Mechanical	Position, seating and retention
Electrical	Loop supply and field conductors
Processing	Range, limits and correction
Supervision	Supply, range and wire-break states
Release	Controlled test with retained result

Configuration ownership

Keep assigned channel values under the approved project record.

Acceptance ownership

Name the retained result that authorizes handover of the measurement path.

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Technical resource bands

Only capabilities tied to the exact execution appear here; operating assignments remain configuration-controlled.

PARAMETER	VALUE
Exact model	MMS6210
Documented designation	Dual Channel Shaft Displacement Monitor
Measurement channels	2
Sensor family	PR 642x eddy-current measurement chains
Supply inputs	Two redundant inputs, diode-decoupled
Supply voltage	18 to 31.2 V DC

PARAMETER	VALUE
Power consumption	Maximum 6 W; maximum 250 mA at 24 V
System communication	RS-485 bus
Bus capacity	Maximum 31 modules / 62 channels per RS-485 bus
Operating temperature	0 to +65 °C
Relative humidity	5 to 95%, non-condensing
Front protection	IP21

Label decision

Accept the stated part number only when the complete installed identity agrees.

Circuit decision

Confirm the recorded field-circuit arrangement before reconnecting any loop.

Processing decision

Restore channel processing from the approved project rather than a neighboring position.

Evidence decision

Use diagnostic observations and a controlled response to support final handover.

Engineering boundary

A similar faceplate or matching channel total does not prove interchangeability. Resolve the host position, connection scheme and controlled revision before use.

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Controls and service logic

Identity control

Preserves the complete MMS6210 execution.

Host integration

Matches the installed MMS 6000 Machine Monitoring System position.

Interface control

Retains power, signal, keying and protective connections.

Release control

Uses diagnostics and a functional test to close the work.

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Resolve label, designation and receiving position
2. Compare	Review circuit type, processing and supervision
3. Restore	Rebuild the recorded connection and configuration state
4. Demonstrate	Retain diagnostic and functional acceptance evidence

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Engineering decisions

What must remain unchanged when MMS6210 is moved into the approved position?

MMS6210 is documented for monitoring two shaft-displacement measurement channels.

Which diagnostic review is appropriate after energizing MMS6210?

Match the entire model string, the installed position, keying, terminal hardware and approved system record before changeout.

Why is the suffix in MMS6210 part of the controlled identity?

The verified value for measurement channels is 2.

How should an engineer verify MMS6210 against the host drawing?

Its function depends on the documented receiving position and connected hardware; similar appearance does not establish interchangeability.

Which measurement or output path is served by MMS6210?

Record the full label, host position, wiring, connected devices, active settings and as-found diagnostics before isolation.

What prevents a look-alike unit from replacing MMS6210 without review?

Restore the documented interfaces, review diagnostics and functionally verify monitoring two shaft-displacement measurement channels before

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