Emerson MMS6312

Dual-Channel Rotational Speed Monitor / Product dashboard

This consolidated record keeps Emerson MMS6312 identity, technical limits, applications, precautions and acceptance evidence on one review surface.

IDENTITY

Emerson MMS6312

PRODUCT ROLE

Dual-Channel Rotational Speed Monitor

PLATFORM

MMS 6000 Machinery Protection System

CONTROL BASIS

Exact evidence plus installed-system record

Exact model	MMS6312
Measurement channels	2
Primary measurements	Rotational speed; standstill; key pulses
Combined functions	Direction of rotation; speed difference
Supported sensor paths	PR6422 to PR6425 with CON; PR9376; PR6453
Local interface	RS232

The dashboard places MMS6312 identity, operating role and maintenance boundaries in one review surface for the MMS 6000 Machinery Protection System installation.

Dashboard boundary

This overview supports identification and maintenance planning; it does not declare compatibility with a neighboring model or approve a redesign.

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Dual-Channel Rotational Speed Monitor / Technical matrix

Exact model	MMS6312
Measurement channels	2
Primary measurements	Rotational speed; standstill; key pulses
Combined functions	Direction of rotation; speed difference
Supported sensor paths	PR6422 to PR6425 with CON; PR9376; PR6453
Local interface	RS232
System interface	RS485 via MMS6850
Supply arrangement	Redundant supply inputs
Service capability	Replaceable during operation
Operating mode	MMS 6000 rack or stand-alone

DATA USE

Values support exact-model identification and configuration review.

LIMIT CONTROL

Electrical, software and loading limits remain subject to the installed design.

RECORD SOURCE

EPRO MMS6312 Dual Channel Measuring Amplifier Data Sheet

REVISION NOTE

Manufacturer data sheet / MMS 6000 monitoring system

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Dual-Channel Rotational Speed Monitor / Application architecture

Turbine speed supervision

Evaluates two pulse channels for shaft-speed alarms and trips.

Standstill detection

Confirms that rotating equipment has reached the configured zero-speed state.

Direction monitoring

Combines channel information to determine the documented direction of rotation.

Differential-speed checks

Compares two measured speeds for gearbox or train supervision.

Input to decision	Exact label plus manufacturer evidence
Installed context	Rack, terminal, network, project and connected process
Change control	Approved scope and retained configuration baseline
Proof	Diagnostic state plus witnessed functional result

Within the MMS 6000 Machinery Protection System context, MMS6312 must be reviewed together with its assigned project data, field interfaces and the maintenance acceptance record.

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Dual-Channel Rotational Speed Monitor / Risk and decision register

PRIMARY RISK

A mismatch between the MMS6312 label and the installed dual-channel rotational speed monitor record.

CONFIGURATION RISK

Loss of the MMS6312 project, mapping, wiring or interface baseline.

SELECTION RISK

Treating another MMS 6000 Machinery Protection System item as automatically equivalent to MMS6312.

RELEASE RISK

Returning MMS6312 to control before diagnostics and functional response are witnessed.

Decision register

How many measurement channels does Emerson MMS6312 provide?

It provides two independent pulse-signal measurement channels.

Which sensor families are documented for Emerson MMS6312?

The manufacturer sheet lists PR6422 through PR6425 with matching converters, plus PR9376 and PR6453 pulse sensors.

How does Emerson MMS6312 communicate with the MMS 6000 system?

The module uses RS485 communication through the MMS6850 system interface.

What must be retained before replacing Emerson MMS6312?

Retain both sensor mappings, pulse factors, limits, output logic, communication settings and the as-found machine state.

Which rotational functions can Emerson MMS6312 evaluate?

The module measures speed, standstill and key pulses and can derive direction or speed difference from the two channels.

How is Emerson MMS6312 configured locally?

A local RS232 interface supports parameter setting and readout.

Can Emerson MMS6312 operate outside a populated MMS 6000 rack?

The manufacturer states that stand-alone operation is possible when the required supply and interfaces are provided.

Which tests complete commissioning of Emerson MMS6312?

Prove both speed channels and the configured standstill, direction, differential and alarm functions under controlled conditions.

Decision closeout

Approve the MMS6312 decision register only when identity, configuration, diagnostics and observed process behavior tell one consistent story.

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Dual-Channel Rotational Speed Monitor / Canonical record and support

Canonical identity	Emerson MMS6312
Product name	Dual-Channel Rotational Speed Monitor
Family	MMS 6000 Machinery Protection System
Selection boundary	Exact identity; no neighboring-model inference
Release boundary	Installed record plus witnessed functional proof

VERIFIED APTER POWER CATALOG REFERENCES

Navigation only; compatibility, substitution and manufacturer endorsement are not implied.

Emerson PR6426 000 030	View Emerson PR6426 000 030 page
Emerson PR6424 010 140	View Emerson PR6424 010 140 page

MANUFACTURER EVIDENCE RECORD

EPRO MMS6312 Dual Channel Measuring Amplifier Data Sheet

Manufacturer data sheet / MMS 6000 monitoring system

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Send the exact model, quantity, destination and requested condition for a quotation.