

Emerson - MMS 6000**MMS6312**

Dual-Channel Rotational Speed Monitor

Verified model data

Manufacturer	epro / Emerson
Part number	MMS6312
Product type	Dual-channel rotational speed monitor
Channels	2 speed or key inputs
Supported sensor families	PR642x eddy-current chains, PR9376 and PR6453
Operating functions	Speed, key pulse, direction and redundant speed
Power consumption	Maximum 6 W; 250 mA at 24 VDC
Order number	9100-00025
Mating connector	F48M; ordered separately
Product family	MMS 6000 Machine Monitoring System
Supply voltage	18 to 31.2 VDC; nominal 24 VDC

Selection summary

EPRO MMS6312 is a two-channel speed monitor for rotational speed, key-phase, direction and redundant-speed duties in MMS 6000 systems.

It supports documented eddy-current and Hall or magnetic sensor arrangements and provides configurable protection, proportional and buffered outputs for rotating machinery.

Before replacement, record sensor and target details, pulses per revolution, speed range, trigger thresholds, direction logic, redundancy mode, alarms, relays, outputs, bypasses and module configuration.

Emerson - MMS 6000**MMS6312****Additional verified data**

Configuration interface	RS232 on module front
System interface	RS485; up to 31 modules / 62 channels per bus
Module protection	IP00; front plate IP21
Operating temperature	0 to 65°C
Storage and transport temperature	-30 to 85°C
Relative humidity	5 to 95%, non-condensing
Dimensions	3.0 × 12.84 × 16.0 cm (W × H × D)
Net weight	Approximately 0.32 kg

Speed Scaling

- Set pulses per revolution from the actual target
- Confirm engineering units and full speed range
- Compare indicated speed with an independent reference

Input Reliability

- Verify air gap and waveform at minimum and maximum speed
- Set threshold and hysteresis to avoid edge doubling
- Inspect shielding and sensor supply before replacing the module

Protection Functions

- Preserve direction and redundant-speed logic
- Restore alarms, relays and analog outputs
- Test dropout and recovery under controlled conditions

Application checkpoints

- Turbine and compressor rotational-speed monitoring
- Redundant speed measurement for machinery protection
- Key-phase and direction monitoring in MMS 6000 systems

Evidence boundary: Dimensions and net weight are taken from the exact-model original epro datasheet; gross packed weight is excluded.

Source basis: Original epro MMS 6312 data sheet 6010-00022.