

Installation Identity and Scope

Emerson A6370D is a one-channel speed monitor with display for the AMS 6300 SIS overspeed protection system. Three monitors can be used with the system backplane and terminal hardware to implement independent speed channels and voted protection logic.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	A6370D
Manufacturer	Emerson
Hardware type	Overspeed Monitor
System family	AMS 6300 SIS
Official source	Emerson data sheet, December 2023; A6370D ordering code

CONTROLLED ENGINEERING COPY

Record the sensor type, pulse count, speed range, setpoints and relay allocation before replacing A6370D. Test the channel with a traceable frequency source and prove display, alarm, trip and system voting before restoring the protected machine.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



A6370D

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Confirm A6370D and do not substitute A6370D/DP unless Profibus is explicitly required.
2	Place the overspeed protection system in the approved bypass or maintenance state.
3	Record sensor type, pulse count, frequency range and speed units.
4	Capture alert, danger and trip setpoints with their delay and voting assignments.
5	Verify redundant 24 VDC system power before card work.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	A6370D
Physical interface	Documented speed sensor and target
Companion check	AMS 6300 SIS rack and A6371 backplane
Configuration	Pulse count, range, setpoint and voting configuration
Functional proof	Traceable frequency and trip proof test

RELEASE HOLD POINT

Do not disturb the installed device until the exact marking, connections, companion hardware and configured function are documented.

Wiring and Interface Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Order code	Confirm A6370D without the DP suffix.
Sensor	Record type, target and wiring.
Scaling	Save pulses per revolution and speed units.
Setpoints	Record alarm and trip values and delay.
Power	Verify redundant 24 VDC feeds.
Display	Compare indicated speed with test frequency.
Trip	Prove the independent channel output.
Voting	Confirm the system-level response with the approved procedure.

CONFIGURATION BOUNDARY

Record the sensor type, pulse count, speed range, setpoints and relay allocation before replacing A6370D. Test the channel with a traceable frequency source and prove display, alarm, trip and system voting before restoring the protected machine.

Expected Technical Values

PARAMETER	VALUE
Complete model	A6370D
System	AMS 6300 SIS
Channels	1 speed channel
Local interface	Display

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	A6370D and its channel assignment are confirmed.
Measurement	Displayed speed agrees with traceable frequency.
Trip	The independent channel changes state at the configured limit.
System proof	Backplane and voted protection response are verified.

Technical Questions to Resolve

QUESTION	ENGINEERING ANSWER
What does the D suffix identify on Emerson A6370D?	The ordering table identifies A6370D as the one-channel speed monitor with display.
How is Emerson A6370D different from A6370D/DP?	A6370D/DP adds the Profibus option; the exact A6370D order code does not include that option.
How many speed inputs does Emerson A6370D monitor?	Each A6370D provides one independent speed channel.
Why are three Emerson A6370D monitors commonly installed?	The AMS 6300 SIS architecture uses three independent monitors so the backplane and relay arrangement can implement the required protection voting.

Source, Related Products and Release

MODEL	APTER POWER PAGE
Bently Nevada 21000-16-10-00-098-03-02	View Bently Nevada 21000-16-10-00-098-03-02
Bently Nevada 21000-16-10-00-103-04-02	View Bently Nevada 21000-16-10-00-103-04-02
Bently Nevada 21000-16-10-00-120-04-02	View Bently Nevada 21000-16-10-00-120-04-02
Bently Nevada 21000-16-10-00-126-04-02	View Bently Nevada 21000-16-10-00-126-04-02
Bently Nevada 21000-16-10-00-167-04-02	View Bently Nevada 21000-16-10-00-167-04-02
Bently Nevada 21000-16-10-15-057-03-02	View Bently Nevada 21000-16-10-15-057-03-02
Bently Nevada 21000-16-10-15-102-03-02	View Bently Nevada 21000-16-10-15-102-03-02
Bently Nevada 21000-16-10-15-114-03-02	View Bently Nevada 21000-16-10-15-114-03-02

MANUFACTURER SOURCE RECORD

A6370 Overspeed Protection Monitor Data Sheet
Emerson data sheet, December 2023; A6370D ordering code

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	A6370D recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
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