

F3237

Eight-Channel Safety-Related Digital Input Module

HIMA F3237 is an eight-channel safety-related digital input module for H41q/H51q systems. It accepts proximity-switch or contact-generator signals and supports line-short and line-break monitoring.

IDENTITY	VERIFIED VALUE
Manufacturer	HIMA
System family	HIMA H41q/H51q safety system
Part number	F3237
Product role	Provides eight safety-related digital inputs
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

Install F3237 only in the documented H41q/H51q slot and record all eight NAMUR or contact input circuits, commons and line-monitoring configuration before removal. Restore the approved safety application and complete channel simulation and proof testing before re-enabling the safety function.

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Technical Specifications

Technical values below are limited to the named HIMA product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Input channels	8	Line monitoring	Short circuit and line break
Input type	Digital input	Safety integrity	SIL 3
Sensor interface	Proximity switches or contact generators	Standard	NAMUR / EN 60947-5-6

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	HIMA H41q/H51q safety system
Primary system role	Provides eight safety-related digital inputs
Connection boundary	Install F3237 only in the documented H41q/H51q slot and record all eight NAMUR or contact input circuits, commons and line-monitoring configuration before removal. Restore the approved safety application and complete channel simulation and proof testing before re-enabling the safety function.
Controlled acceptance duty	Emergency shutdown input acquisition

ENGINEERING BOUNDARY

Confirm HIMA F3237, H41q/H51q host, eight-channel map, NAMUR or contact devices, line-monitoring settings, wiring, commons, grounding, safety application and SIL proof-test results before commissioning.

Pre-Installation Checks

- 1

Confirm HIMA F3237 and the assigned H41q/H51q slot.
- 2

Place the affected safety function and final elements in the approved maintenance state.
- 3

Isolate all eight input circuits and apply ESD-safe handling.
- 4

Record every channel, common, proximity switch or contact generator and line-monitoring assignment.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	F3237
Installed host	HIMA H41q/H51q safety system
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

HIMA F3237 is an eight-channel safety-related digital input module for H41q/H51q systems. It accepts proximity-switch or contact-generator signals and supports line-short and line-break monitoring.

FUNCTION 1 Provides eight safety-related digital inputs	FUNCTION 2 Supports NAMUR proximity-switch signals
FUNCTION 3 Monitors field lines for shorts and breaks	FUNCTION 4 Integrates with H41q/H51q safety logic

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	HIMA H41q/H51q safety system
2	Digital input
3	Emergency shutdown input acquisition
4	Install F3237 only in the documented H41q/H51q slot and record all eight NAMUR or contact input circuits, commons and line-monitoring configuration before removal. Restore the approved safety application and complete channel simulation and proof testing before re-enabling the safety function.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	HIMA H41q/H51q safety system
Interface role	Provides eight safety-related digital inputs
Field / power context	The module interfaces proximity switches or contact generators with the safety controller and supervises field wiring for shorts and breaks. Commissioning verifies the slot, channel map, polarity, monitoring behavior and safety diagnostics.
Commissioning evidence	Simulate each input and complete the approved safety proof test before release.

Installation and Connection Checks

1	Confirm the approved NAMUR interface and safety-program channel allocation.	2	Restore the documented module position, wiring and safety application.
3	Review controller, module and line-fault diagnostics after controlled energization.	4	Simulate each input and complete the approved safety proof test before release.

MANUFACTURER SOURCE RECORD

H41q/H51q F3237 module revision list
HIMA official document 59904

Applications and Engineering Context

Emergency shutdown input acquisition

Collects monitored field-trip signals for the safety program.

Fire and gas contact monitoring

Supervises documented contacts and NAMUR devices for line faults.

Rotating-equipment protection inputs

Brings monitored switches into the approved safety logic.

Safety-system module replacement

Restores an exact eight-channel input position with proof-test evidence.

TECHNICAL NOTE

Install F3237 only in the documented H41q/H51q slot and record all eight NAMUR or contact input circuits, commons and line-monitoring configuration before removal. Restore the approved safety application and complete channel simulation and proof testing before re-enabling the safety function.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	F3237 recorded
Host / carrier	HIMA H41q/H51q safety system
Physical interface	Provides eight safety-related digital inputs
Configuration	Review controller, module and line-fault diagnostics after controlled energization.
Functional proof	Simulate each input and complete the approved safety proof test before release.

IMPORTANT NOTICE

Confirm HIMA F3237, H41q/H51q host, eight-channel map, NAMUR or contact devices, line-monitoring settings, wiring, commons, grounding, safety application and SIL proof-test results before commissioning.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	F3237
Approved role	Emergency shutdown input acquisition
Final validation	Simulate each input and complete the approved safety proof test before release.

Engineering Precautions

1	Confirm HIMA F3237 and the assigned H41q/H51q slot.	2	Place the affected safety function and final elements in the approved maintenance state.
3	Isolate all eight input circuits and apply ESD-safe handling.	4	Record every channel, common, proximity switch or contact generator and line-monitoring assignment.
5	Confirm the approved NAMUR interface and safety-program channel allocation.	6	Restore the documented module position, wiring and safety application.
7	Review controller, module and line-fault diagnostics after controlled energization.	8	Simulate each input and complete the approved safety proof test before release.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
HIMA K1409	Related Apter Power product	View HIMA K1409 page
HIMA F3422	Related Apter Power product	View HIMA F3422 page
HIMA F60CPU01-771193	Related Apter Power product	View HIMA F60CPU01-771193 page
HIMA HIMAX-X-CPU01	Related Apter Power product	View HIMA HIMAX-X-CPU01 page
HIMA HIMAX-X-COM01	Related Apter Power product	View HIMA HIMAX-X-COM01 page
HIMA HIMAX-X-AO1601	Related Apter Power product	View HIMA HIMAX-X-AO1601 page
HIMA HIMAX-X-BLK03	Related Apter Power product	View HIMA HIMAX-X-BLK03 page
HIMA HIMAX-X-DI3201	Related Apter Power product	View HIMA HIMAX-X-DI3201 page

MANUFACTURER SOURCE RECORD

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