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.

BRAND	HIMA	FAMILY	HIMA H41q/H51q safety system
PART	F3237	SYSTEM ROLE	Provides eight safety-related digital inputs

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MANUFACTURER SOURCE RECORD

H41q/H51q F3237 module revision list
HIMA official document 59904

Product Overview

SYSTEM FUNCTION

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

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	HIMA H41q/H51q safety system
Primary interface	Provides eight safety-related digital inputs
Engineering 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 duty	Simulate each input and complete the approved safety proof test before release.

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.

Technical Data

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

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
HIMA F8627X	Related Apter Power product	View HIMA F8627X page
HIMA F8651E	Related Apter Power product	View HIMA F8651E page
HIMA F7541	Related Apter Power product	View HIMA F7541 page
HIMA Z7108	Related Apter Power product	View HIMA Z7108 page
HIMA Z7150	Related Apter Power product	View HIMA Z7150 page
HIMA Z1006	Related Apter Power product	View HIMA Z1006 page
HIMA 52100	Related Apter Power product	View HIMA 52100 page
HIMA 42300	Related Apter Power product	View HIMA 42300 page

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.

Applications and Precautions

Common Applications

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.

Product 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.

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.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	F3237
Configuration	Review controller, module and line-fault diagnostics after controlled energization.
Functional release	Simulate each input and complete the approved safety proof test before release.

Engineer FAQ

Q1 How should NAMUR initiators be verified for HIMA F3237?

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.

Q2 Which record controls line monitoring on HIMA F3237?

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.

Q3 What must be preserved for eight channel map when servicing HIMA F3237?

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

Q4 How is safety isolation isolated before work on HIMA F3237?

Place the affected safety function and final elements in the approved maintenance state. Isolate all eight input circuits and apply ESD-safe handling.

Q5 What official check applies to H41q/H51q slot for HIMA F3237?

Confirm the approved NAMUR interface and safety-program channel allocation.

Q6 How is wiring restore restored after fitting HIMA F3237?

Restore the documented module position, wiring and safety application.

Q7 Which diagnostic confirms SIL diagnostics for HIMA F3237?

Review controller, module and line-fault diagnostics after controlled energization.

Q8 What proves proof-test evidence is accepted for HIMA F3237?

Simulate each input and complete the approved safety proof test before release.

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