HIMA F3240

16-Channel Safety Digital Input Module

Sixteen safety-related digital input channels for the high-voltage contact-input application. Field-voltage identity and channel-to-logic assignment are the central installation decisions.

Sixteen field contact circuits → **F3240 acquisition and slot detection** → **Mapped safety logic**

Identity and capability

Input channels	16
Signal class	Digital contact input
Safety listing	SIL 3
Current portfolio voltage description	110 V DC / 127 V AC

Integration and service

Slot detection	Present in the H41q/H51q catalogue
Input restoration	Module and allocated cable connector must match
Post-insertion action	Refresh central display with ACK for safety/slot-detected modules
Cable test boundary	External cables disconnected at both ends before insulation testing

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Required integration outcomes

Subject	Required outcome
Circuit supply	Actual AC/DC circuit agrees with the exact marking and drawing
Wiring condition	No impermissible external voltage or unresolved wiring fault
Slot/plug mapping	Assigned module position and cable plug agree
Input states	Each used channel follows the approved test stimulus
Safety response	Required logic effect and diagnostics are demonstrated

Use the approved site procedure for trip thresholds, hazardous-area approval and permission to work. This dossier does not assign plant-specific limits.

Engineering distinctions

Voltage execution

Use the exact marking and circuit drawing to establish AC/DC execution before connecting the sixteen field circuits; do not use a neighboring input model rating.

Channel identity

A physical input state must be traced through its assigned logic variable and safety effect. Correct module identity alone does not validate the mapping.

Insulation testing

High test voltage on connected electronics can damage the I/O. Test isolated external wiring with both ends disconnected, not through the module.

Diagnostic acknowledgement

ACK refreshes the central display after applicable I/O insertion; it is not a substitute for the field-channel functional test.

Applied engineering case

Digital-input replacement should preserve the field-voltage class and the input-to-application assignment. A correct electrical state at one terminal is not sufficient if the associated controller indication or safety response belongs to another channel.

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Technical reference record

H41q/H51q System Catalogue, HI 800 263 E

PDF pp. 34, 41, 44-46, 53; I/O handling, shielding, startup and module row

Technical Product Overview

HIQuad X digital inputs; F3240 row

Companion reading

The preserved manufacturer excerpt supplies the original technical listing and system context. The separate installation guide covers the ordered work sequence, commissioning evidence and fault checks.

Related Apter Power catalog references

Catalog navigation only. These entries do not establish compatibility, substitution or approval of a changed installation.

HIMA F3236 | View HIMA F3236 page

HIMA F3221 | View HIMA F3221 page

HIMA F3237 | View HIMA F3237 page

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

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