01 / Identity and job scope

HONEYWELL

FC-IO-0001 V1.1

I/O bus interface

Product role

Honeywell FC-IO-0001 V1.1 transfers communication between a Safety Manager Control Processor and the I/O modules in the connected chassis.

Control Processor
CN1 connection

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IO-0001
Communication interface

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I/O chassis
Bus and address selection

Applicability

The listed interface and supply values describe IO-0001. Match the offered FC-IO-0001 V1.1 to the installed chassis and revision; the reference data-sheet version is not a separate unit-approval statement.

Hardware and configuration

The IO-0001 design provides the communication interface between the Control Processor and the I/O modules. In an IOCHAS-0001S non-redundant chassis, one module occupies slot 21; an IOCHAS-0001R redundant chassis uses modules in slots 20 and 21. Preserve the offered FC-IO-0001 V1.1 marking when selecting the replacement.

Planning basis

This Apter Power guide supports identification and engineering planning. Apply the complete manufacturer and machine-builder procedures for the actual installation.

02 / Configuration and interface readiness

Item	Configuration relationship
Function	Control Processor to I/O communication
Non-redundant chassis	IOCHAS-0001S: 1 module in slot 21
Redundant chassis	IOCHAS-0001R: modules in slots 20 and 21
Control Processor connection	CN1
Address selection connection	CN3
Bus connection	Front flat-cable connection
Connector	DIN 41612 type F male; d/b/z rows

Technical context

The interface connects to the Control Processor through CN1 and to the horizontal I/O bus through the front flat-cable connection. CN3 provides the chassis-address selection connection. The module uses a DIN 41612 type F male connector with d, b and z rows; the complete connector and cable arrangement must match the installed chassis.

How is FC-IO-0001 V1.1 arranged in a redundant chassis?

The IOCHAS-0001R arrangement uses two IO-0001 interfaces in slots 20 and 21.

Which connections are used by FC-IO-0001 V1.1?

CN1 connects to the Control Processor, the front flat cable connects to the horizontal I/O bus, and CN3 connects to chassis-address selection.

03 / Installation and connection decisions

Preserve exact version

Match FC-IO-0001 V1.1, the chassis type and the installed I/O configuration.

Plan shutdown consequences

Assess safety-related I/O before powered removal; replacement can initiate a shutdown.

Retain slot assignments

Use slot 21 for the documented non-redundant arrangement and slots 20/21 for redundancy.

Protect cable orientation

Record and preserve CN1, CN3 and horizontal-bus flat-cable orientation.

Installation context

Chassis address selection uses CA0 through CA3 and supports addresses 1 through 9 in the documented arrangement. The design supply is 5 Vdc at 35 mA, with ripple below 50 mV peak-to-peak. Powered replacement can cause a shutdown when safety-related I/O is involved, so isolate or manage the process under the approved Safety Manager procedure before removing the interface.

What connector design applies to FC-IO-0001 V1.1?

The IO-0001 design uses a DIN 41612 type F male connector with d, b and z rows.

How is chassis addressing associated with FC-IO-0001 V1.1 selected?

The documented arrangement uses CA0 through CA3 for chassis addresses 1 through 9. Preserve the installed address selection.

04 / Functional acceptance planning

Application	Controlled review
Non-redundant I/O	Link one Control Processor communication path to the applicable non-redundant I/O chassis.
Redundant I/O	Maintain the paired communication paths in the documented redundant chassis arrangement.
Chassis identification	Preserve the address-selection connection and installed CA0–CA3 configuration.
I/O service recovery	Restore processor-to-I/O communication and verify channel behavior after controlled maintenance.

What supply requirements apply to the design of FC-IO-0001 V1.1?

The design uses 5 Vdc at 35 mA, with supply ripple below 50 mV peak-to-peak. Confirm applicability to the actual marked unit.

Can FC-IO-0001 V1.1 be replaced without affecting safety-related I/O?

Do not assume that. Powered replacement can cause a shutdown where safety-related I/O is involved; follow the approved system procedure.

Release boundary

Confirm the processor communication path and controlled field response before normal service.

Record
Keep the original configuration

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Test
Observe controlled response

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Release
Authorize normal operation

05 / Technical handover and support

Retained information

Keep the complete FC-IO-0001 V1.1 marking, host identity, connection photographs, configuration backup and controlled-test results in the service record.

Support planning

Confirm current support and replacement guidance with Honeywell for the installed identity and configuration. Apter Power availability and dispatch are separate quotation matters.

Reference basis

Honeywell Safety Manager Hardware Reference, EP-SM.MAN.6284, Release 162 Issue 1.10.

Apter Power technical summary. Apply the original instructions for the actual installation.

Related industrial automation products

Navigation only; no substitution or compatibility claim.

Honeywell FC-TSDI-1624

Honeywell DWR06

Honeywell FTA-T-01

Discuss your installed configuration

Send the full unit marking and connection details.

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