

FC-USI-0001 V1.0

Universal Safety Interface Module

Honeywell FC-USI-0001 V1.0 is a Universal Safety Interface module for Safety Manager communication and interface functions.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Safety Manager

PART

FC-USI-0001 V1.0

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PRODUCT OVERVIEW

Honeywell FC-USI-0001 V1.0 is a Universal Safety Interface module for Safety Manager communication and interface functions.

- 1 Provides the Safety Manager universal interface
- 2 Connects approved safety-system communication hardware
- 3 Supports controlled online replacement
- 4 Maps the interface into the safety configuration

SYSTEM COMPONENTS

Safety Manager controller

Approved interface cable

Configured communication channel

Safety Manager R140.1 or later for FX replacement

TECHNICAL DATA

PARAMETER	VALUE
Module model	FC-USI-0001
Hardware revision	V1.0
Replacement module	FX-USI-0002

PARAMETER	VALUE
Replacement baseline	Safety Manager R140.1 or later
Replacement compatibility	Pin and function compatible

TECHNICAL NOTE

Back up the interface configuration, record port assignments and confirm the system release before replacing FC-USI-0001 V1.0 with FX-USI-0002.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Safety-system serial interfaces

Provides the Safety Manager universal interface

Legacy USI maintenance

Connects approved safety-system communication hardware

Controller communication cabinets

Supports controlled online replacement

Planned FX-USI migration

Maps the interface into the safety configuration

PRODUCT PRECAUTIONS

- 1 Verify the complete FC-USI-0001 V1.0 marking and its assigned Safety Manager position before work.
- 2 Isolate the applicable power and field energy before disconnecting FC-USI-0001 V1.0.
- 3 Protect FC-USI-0001 V1.0 connectors and electronic assemblies with approved ESD controls.
- 4 Record the installed wiring, channel assignment and configuration before replacement.
- 5 Match Safety Manager controller and Approved interface cable to the documented system arrangement.
- 6 Commission FC-USI-0001 V1.0 with controlled status, signal and diagnostic checks.
- 7 Retain the final safety-system serial interfaces functional-test result in the maintenance record.

ENGINEER FAQ

Q1 Does FC-USI-0001 V1.0 match Safety Manager controller in a Safety-system serial interfaces installation?

Verify the complete FC-USI-0001 V1.0 marking, the documented Safety Manager position and the installed Safety Manager controller before fitting the assembly.

Q2 How should FC-USI-0001 V1.0 be wired when it must provides the safety manager universal interface?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for FC-USI-0001 V1.0; then continuity-test the affected path.

Q3 Which Safety Manager records should be captured before removing FC-USI-0001 V1.0?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with FC-USI-0001 V1.0 before disconnection.

Q4 What controlled test confirms that FC-USI-0001 V1.0 can connects approved safety-system communication hardware?

Apply the approved field or simulated stimulus, observe the Safety Manager indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which Approved interface cable condition should be checked when FC-USI-0001 V1.0 reports an abnormal state?

Check the Approved interface cable supply, seating and connection first, then compare channel diagnostics with the recorded FC-USI-0001 V1.0 baseline.

Q6 Can FC-USI-0001 V1.0 be moved directly into Legacy USI maintenance without validating Safety Manager R140.1 or later for FX replacement?

No. Confirm the Safety Manager R140.1 or later for FX replacement, revision, connection scheme and Safety Manager configuration before transferring FC-USI-0001 V1.0 to that duty.

Q7 What maintenance evidence is required after FC-USI-0001 V1.0 is used for Controller communication cabinets?

Retain the nameplate record, corrective action, final diagnostics and a controlled controller communication cabinets functional-test result for FC-USI-0001 V1.0.

Q8 How should FC-USI-0001 V1.0 be returned to service in Planned FX-USI migration?

Restore power under control, verify supports controlled online replacement, exercise the intended signal path and release FC-USI-0001 V1.0 only after the Safety Manager remains in its approved operating state.

SOURCE Honeywell Safety Manager Hardware Reference and System HINTS | EP-SM.MAN.6284; R140.1 replacement note

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