

FC-TSDI-16UNI

Sixteen-Channel Universal Safe Digital Input FTA

Honeywell FC-TSDI-16UNI is a 16-channel universal safe digital input FTA. It connects two groups of eight field input circuits to the matched Safety Manager input module.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Safety Manager

PART

FC-TSDI-16UNI

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FC-TSDI-16UNI

PRODUCT OVERVIEW

Honeywell FC-TSDI-16UNI is a 16-channel universal safe digital input FTA. It connects two groups of eight field input circuits to the matched Safety Manager input module.

1

Terminates universal safe digital inputs

2

Separates field circuits into protected groups

3

Provides fused field connections

4

Connects to the input module through an SICC cable

SYSTEM COMPONENTS

Matched safe digital input module

SICC-0001/Lx cable

Fused field input circuits

DIN-rail cabinet

TECHNICAL DATA

PARAMETER	VALUE
Input channels	16; 2 groups of 8
Maximum voltage category 3	50 Vdc
Maximum voltage category 2	150 Vdc
Fuse rating	250 mA

PARAMETER	VALUE
Maximum output current per fuse	175 mA
Terminal wire size	2.5 mm ² maximum
Terminal torque	0.5 Nm
Approvals	CE; TUV; UL; CSA; FM

TECHNICAL NOTE

Confirm the voltage category and documented fuse arrangement, apply the specified terminal torque and prove both protected channel groups.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Emergency stop inputs

Terminates universal safe digital inputs

Fire-and-gas detector contacts

Separates field circuits into protected groups

Burner permissive circuits

Provides fused field connections

Safety limit-switch monitoring

Connects to the input module through an SICC cable

PRODUCT PRECAUTIONS

- 1 Verify the complete FC-TSDI-16UNI marking and the assigned Safety Manager position before field work.
- 2 Isolate the applicable power, network and field energy before disconnecting FC-TSDI-16UNI.
- 3 Use ESD controls and protect the keyed connectors of FC-TSDI-16UNI during handling.
- 4 Record the installed wiring, jumpers, node or channel assignment before replacement.
- 5 Confirm Matched safe digital input module and SICC-0001/Lx cable against the approved system configuration.
- 6 Restore FC-TSDI-16UNI under controlled conditions and review the product-specific diagnostics.
- 7 Complete a functional test for emergency stop inputs before production release.

ENGINEER FAQ

Q1 Which Matched safe digital input module identity must be verified before fitting the FC-TSDI-16UNI Sixteen-Channel Universal Safe Digital Input FTA?

Match the complete FC-TSDI-16UNI marking, assigned Safety Manager position and installed Matched safe digital input module before work.

Q2 How should SICC-0001/Lx cable be isolated before disconnecting the FC-TSDI-16UNI Sixteen-Channel Universal Safe Digital Input FTA?

Place the affected process in its approved maintenance state, isolate applicable energy and prove SICC-0001/Lx cable safe before disconnection.

Q3 What as-found wiring record is required for the FC-TSDI-16UNI Sixteen-Channel Universal Safe Digital Input FTA in Emergency stop inputs?

Record terminal identity, polarity, shields, jumpers, cable tags and the as-found diagnostic state for FC-TSDI-16UNI.

Q4 Which Safety Manager configuration must be checked when commissioning the FC-TSDI-16UNI Sixteen-Channel Universal Safe Digital Input FTA?

Verify the assigned channel, slot, node or interface and compare it with the approved Safety Manager configuration before enabling FC-TSDI-16UNI.

Q5 How can the FC-TSDI-16UNI Sixteen-Channel Universal Safe Digital Input FTA be function-tested for Fire-and-gas detector contacts without disturbing the process?

Use a controlled stimulus or limited command, observe the expected system indication and confirm the intended response while normal interlocks remain effective.

Q6 Which diagnostics should be reviewed if the FC-TSDI-16UNI Sixteen-Channel Universal Safe Digital Input FTA stops performing its assigned system function?

Check seating, the matched Matched safe digital input module, the condition of SICC-0001/Lx cable and the model-specific diagnostics before replacing more hardware.

Q7 Can the FC-TSDI-16UNI Sixteen-Channel Universal Safe Digital Input FTA used for Burner permissive circuits be transferred to another Safety Manager position without engineering review?

No. Confirm the hardware execution, connector scheme and approved Safety Manager configuration before transferring FC-TSDI-16UNI to a different duty.

Q8 What evidence should be retained after the FC-TSDI-16UNI Sixteen-Channel Universal Safe Digital Input FTA returns to Safety limit-switch monitoring service?

Retain the physical identification, as-left wiring or configuration, final diagnostics and controlled functional-test result for FC-TSDI-16UNI.

SOURCE Honeywell Safety Manager Hardware Reference | EP-SM.MAN.6284 Issue 2.1

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