MU-TDID12 51304441-125

24 V DC Digital Input Field Termination Assembly

Honeywell MU-TDID12 51304441-125 is a 32-channel, 24 V DC digital input field termination assembly with compression terminals and the nonconformally coated CE-compliant execution.

Job scope and identity

Complete reference	MU-TDID12 51304441-125
Manufacturer	Honeywell
Acquisition path	24 V DC field states > compression-terminal FTA > documented digital input processor
Technical source	Honeywell HPM Planning, March 1998, power planning and digital input FTA selection

Field decisions

Current interpretation

408 mA is the assembly-current entry in the 24 V DC power-planning table, rather than a per-input field current.

Terminal alternatives

MU-TDID52 uses fixed screw terminals. MU-TDID72 uses removable screw terminals and is listed for a single IOP.

Compliance execution

The -125 part is the CE-compliant nonconformally coated assembly. The -100 part is the non-CE version.

Pre-installation readiness

Identify the signal voltage

Verify the installed inputs belong to the 24 V DC family before touching field wiring.

Label every channel conductor

Record terminal positions, conductor identifiers and their associated input points.

Inspect compression terminals

Check conductor retention and terminal damage using the approved service method.

Check the power budget

Account for the FTA and processor loads independently.

Compare execution codes

Confirm -125 against the installed CE configuration and retain its revision record.

Test both input states

Verify representative active and inactive field states at the receiving system after restoration.

Installation and commissioning relationships

Discrete state acquisition	Terminate the documented 24 V DC field input groups before input processing.
Cabinet power planning	Include the assembly-current allowance in the complete cabinet calculation.
Compression-terminal maintenance	Capture conductor positions and terminal condition for a controlled FTA exchange.
Legacy input restoration	Prove actual switch-state indications against the original channel assignment after replacement.

Engineering values for acceptance

Field input class	24 V DC
Digital input channels	32
Planning supply basis	24 V DC
Assembly current for power planning	408 mA
Terminal construction	Compression
Mounting class	C

Diagnostics and escalation

Which evidence should be captured before disconnecting MU-TDID12 51304441-125?	Photograph terminal labels, conductor identifiers, connector locations and the full assembly revision. Associate each wire with its control-system input point so reconnection can be checked independently.
How should MU-TDID12 51304441-125 be tested after conductor restoration?	Under the approved plant procedure, compare representative active and inactive field states with the receiving-system indications. Resolve inverted or misplaced points before the affected inputs resume normal service.
What should be reviewed if several MU-TDID12 51304441-125 inputs fail together?	Review common field supply, connector seating and shared wiring paths before attributing the symptom to separate switches. Compare the affected group with the documented terminal map.
Why should the single-IOP alternative be reviewed separately from MU-TDID12 51304441-125?	MU-TDID72 is explicitly identified as a single-IOP FTA and uses removable screw terminals. Confirm the processor configuration and termination method together before considering substitution.

Handover and evidence package

Preserve the CE execution and compression terminals. Review conductor assignments before replacing the FTA, and distinguish the fixed-screw and removable-screw alternatives by their complete identities.

Confirm MU-TDID12 with 51304441-125 and the delivered revision. Compare the 32-channel compression-terminal layout with the installed assembly.

Inspect terminal retention, conductor entry points, connector condition and mounting features. Capture all field conductor labels before removal.

Related Honeywell product references

Review the complete assembly identity and installed-system application for each reference.

- Honeywell MU-PLAM02 51304362-100
- Honeywell MU-TAMR03 51309218-125

Engineering contact

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Technical basis

Honeywell HPM Planning, March 1998, power planning and digital input FTA selection