

DC-TFB412 51307618-176

DC-TFB412 Redundant Fieldbus IOTA

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PRODUCT SNAPSHOT

BRAND
Honeywell

FAMILY
Experion PKS Series C Fieldbus

PART
DC-TFB412 51307618-176

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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PRODUCT OVERVIEW

Honeywell DC-TFB412 51307618-176 provides termination and fieldbus-power interfacing for a Series C Fieldbus Interface Module in a documented Experion PKS Series C Fieldbus Interface installation.



Series C redundant FIM IOTA



FOUNDATION Fieldbus H1 interfacing



Redundant FTE connectivity



Documented fieldbus power and conditioning

RELATED APTER POWER PAGES

1

General Electric IC695PSD040F

2

General Electric MMLG02R1AA0001E

3

General Electric IC693ALG391G

4

General Electric IC693CMM321-KM

5

General Electric IC694MDL645A

6

General Electric IC694MDL645D

7

General Electric IC694ALG221A

8

General Electric
IS410JPDHG1A-IS400JPDHG1ABB

9

General Electric IS210AEBIH1BEA

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitior Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its documented host position, field connections and approved engineering configuration. Commissioning restores that architecture and verifies the intended function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE	PARAMETER	VALUE
Product type	Redundant Fieldbus Interface Module IOTA	Supported H1 current	Up to 350 mA for the documented
IOTA model	DC-TFB412	Device capacity	Up to 16 mounted devices on a documented H1 link
Manufacturer item number	51307618-176	FTE connections	Redundant yellow and green paths
System	Experion PKS Series C FIM	Grounding	Documented solid-copper grounding conductor
Mounted module arrangement	Non-redundant FIM in the documented upper slot	Service	Removal and insertion under power only with prescribed
Fieldbus	FOUNDATION Fieldbus H1	ESD control	Required
Fieldbus power	User-supplied power and conditioning for each H1 link	Commissioning scope	FTE paths, H1 power, terminators, device schedule

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TECHNICAL NOTE

Install DC-TFB412 51307618-176 only in the documented Experion PKS Series C Fieldbus Interface position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and termination and fieldbus-power interfacing for a Series C Fieldbus Interface Module before release.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Series C H1 fieldbus segment

Connects the documented FOUNDATION Fieldbus devices to a Series C FIM.

Redundant FTE fieldbus interface

Restores the approved yellow and green network paths.

Fieldbus power conditioning

Distributes the user-supplied H1 power through the documented arrangement.

FIM IOTA replacement

Preserves device schedule, H1 polarity, terminators and communication diagnostics.

PRODUCT PRECAUTIONS

1

Confirm DC-TFB412 and item number 51307618-176 on the IOTA record.

2

Place the controller, FIM and all affected H1 loops in the approved maintenance state.

3

Record FTE paths, H1 links, device schedule, power conditioning and terminators.

4

Apply the documented ESD and electrical precautions before service.

5

Verify FIM position, yellow and green FTE connections and grounding.

6

Restore H1 polarity, power conditioning and segment termination.

7

Review FIM, FTE and fieldbus-device diagnostics.

8

Verify communication with every scheduled H1 device before release.

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ENGINEER FAQ

Q1

What system role does DC-TFB412 51307618-176 perform?

It is the documented IOTA for a Series C Fieldbus Interface Module arrangement.

Q2

Which fieldbus protocol is terminated by DC-TFB412 51307618-176?

It supports FOUNDATION Fieldbus H1 links.

Q3

Who supplies the H1 power used with DC-TFB412 51307618-176?

The user supplies the documented power and power conditioning for each H1 link.

Q4

Which current is supported by the documented non-intrinsically-safe DC-TFB412 51307618-176 arrangement?

The documented H1 arrangement supports up to 350 mA.

Q5

How many mounted devices are documented for an applicable DC-TFB412 51307618-176 H1 link?

Up to sixteen mounted devices are documented for the stated arrangement.

Q6

Which redundant network paths connect to DC-TFB412 51307618-176?

The documented FTE connections use yellow and green paths.

Q7

Which precautions apply before servicing DC-TFB412 51307618-176?

Apply the prescribed electrical and ESD precautions and preserve H1 polarity and termination.

Q8

What proves the fieldbus path after replacing DC-TFB412 51307618-176?

Verify FIM and FTE diagnostics plus communication with every scheduled H1 device.

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SOURCE Honeywell Series C Fieldbus Interface Module User's Guide EPDOC-X125 | Official Honeywell manufacturer publication

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