

F860-CA

Unpopulated Eight-Segment Fieldbus IOTA

MTL F860-CA is an unpopulated eight-segment IOTA for the F860 redundant fieldbus power system. It links paired F801 or F802 power modules to Honeywell Series C Fieldbus Interface Modules and field segments.

PRODUCT SNAPSHOT

BRAND

MTL Instruments Group

FAMILY

F860 Redundant Fieldbus Power System

PART

F860-CA

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PRODUCT OVERVIEW

MTL F860-CA is an unpopulated eight-segment IOTA for the F860 redundant fieldbus power system. It links paired F801 or F802 power modules to Honeywell Series C Fieldbus Interface Modules and field segments.

1

Distributes conditioned power to eight independent fieldbus H1 segments

2

Maintains segment termination with one or two installed F80x power modules

3

Transfers individual segment-fault status to the Series C FIM IOTA

4

Accepts an optional physical-layer diagnostics module for all eight segments

SYSTEM COMPONENTS

Honeywell Series C 4-link FIM IOTA

One or two F801 or F802 power modules

Series C channel busbars or dual external 24 Vdc supplies

Two FCAB-0x system cables and eight fieldbus H1 segments

TECHNICAL DATA

PARAMETER	VALUE
IOTA configuration	Unpopulated
Fieldbus segments	8
Power modules	F801; F802
Module positions	2
Input voltage	19.2 to 30.0 Vdc
Input current at 24 Vdc	3.5 A F801; 6 A F802
Power dissipation at 24 Vdc	20 W F801; 24 W F802
Segment output voltage	21.5 to 24.0 Vdc F801; 28.0 to 30.0 Vdc F802
Design current per segment	0 to 350 mA F801; 0 to 500 mA F802
Current limit	>370 mA F801; >520 mA F802
Minimum segment load	0 mA
Input isolation	250 Vac rms withstand
Segment isolation	200 Vdc withstand

PARAMETER	VALUE
Alarm contact rating	1 A maximum at 30 Vdc
Alarm contact state	Normally closed
Segment alarm threshold	<19 Vdc F801; <24 Vdc F802
Supply conductor	0.14 to 2.5 mm ²
FIM connection	Two 16-way multipin FCAB-0x cables
Segment termination	One automatic termination per segment
Ingress protection	IP20
Operating temp, full load	-40 to +65 degC F801; -40 to +50 degC F802
Operating temp, 60% load	-40 to +65 degC
Storage temperature	-40 to +85 degC
Physical networks	IEC 61158-2; FOUNDATION fieldbus H1; PROFIBUS PA
EMC compliance	EN 61326:1998
Mounting	Honeywell Series C I/O channel; vertical

TECHNICAL NOTE

Mount F860-CA vertically on the Series C channel, keep the two FCAB-0x links and eight segment identities unchanged, then prove power, alarm transfer and communication on every segment before restoring redundant service.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Redundant FOUNDATION fieldbus segment power

Distributes conditioned power to eight independent fieldbus H1 segments

Series C process-instrument networks

Maintains segment termination with one or two installed F80x power modules

High-availability eight-segment cabinets

Transfers individual segment-fault status to the Series C FIM IOTA

Fieldbus power and fault-diagnostic modernization

Accepts an optional physical-layer diagnostics module for all eight segments

PRODUCT PRECAUTIONS

- 1 Verify the complete F860-CA marking and its assigned F860 Redundant Fieldbus Power System position before work.
- 2 Isolate the energy associated with Honeywell Series C 4-link FIM IOTA before disconnecting F860-CA.
- 3 Protect the F860-CA connectors and electronic assembly using approved ESD controls.
- 4 Record the as-found One or two F801 or F802 power modules connections and configured assignment before replacement.
- 5 Confirm Series C channel busbars or dual external 24 Vdc supplies matches the approved installation record for F860-CA.
- 6 Restore F860-CA under controlled conditions and review its model-specific diagnostics.
- 7 Complete a documented functional test for redundant foundation fieldbus segment power before release.

ENGINEER FAQ

Q1 Does F860-CA match Honeywell Series C 4-link FIM IOTA in a Redundant FOUNDATION fieldbus segment power installation?

Verify the complete F860-CA marking, the documented F860 Redundant Fieldbus Power System position and the installed Honeywell Series C 4-link FIM IOTA before fitting the assembly.

Q3 Which F860 Redundant Fieldbus Power System records should be captured before removing F860-CA?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with F860-CA before disconnection.

Q5 Which One or two F801 or F802 power modules condition should be checked when F860-CA reports an abnormal state?

Check the One or two F801 or F802 power modules supply, seating and connection first, then compare channel diagnostics with the recorded F860-CA baseline.

Q7 What maintenance evidence is required after F860-CA is used for High-availability eight-segment cabinets?

Retain the nameplate record, corrective action, final diagnostics and a controlled high-availability eight-segment cabinets functional-test result for F860-CA.

Q2 How should F860-CA be wired when it must distributes conditioned power to eight independent fieldbus h1 segments?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for F860-CA; then continuity-test the affected path.

Q4 What controlled test confirms that F860-CA can maintains segment termination with one or two installed f80x power modules?

Apply the approved field or simulated stimulus, observe the F860 Redundant Fieldbus Power System indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can F860-CA be moved directly into Series C process-instrument networks without validating Two FCAB-0x system cables and eight fieldbus H1 segments?

No. Confirm the Two FCAB-0x system cables and eight fieldbus H1 segments, revision, connection scheme and F860 Redundant Fieldbus Power System configuration before transferring F860-CA to that duty.

Q8 How should F860-CA be returned to service in Fieldbus power and fault-diagnostic modernization?

Restore power under control, verify transfers individual segment-fault status to the series c fim iota, exercise the intended signal path and release F860-CA only after the F860 Redundant Fieldbus Power System remains in its approved operating state.