8937-HN

01 / Product identity and function

Series C I/O Link Fiber Optic Extender Module

MTL 8937-HN is the two-kilometre multimode fiber optic extender module identified in Honeywell’s Series C I/O spare-parts table. It transfers a C300 I/O link to remote Series C or PM I/O through a matched FOE arrangement.

System position

Between a C300 I/O link and remote I/O

Optical path

Two interchangeable Rx/Tx port sets

Topology choice

Point-to-point, daisy-chain or star

Commissioning focus

Optical budget and A/B path continuity

Installed-system context

Honeywell lists 8937-HN as a two-kilometre fiber optic extender, with CC-PFE221 as its Honeywell model reference. The FOE assembly comprises the module, a six-inch IOTA and the corresponding interface cable. A module cannot serve Series C and PM I/O on the same installation simultaneously.

Confirm the installed IOTA, fiber cable grade and redundant path before replacing the extender.

System and supply context

Use the module with the specified FOE IOTA or its documented DIN-rail/external-power arrangement.

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02 / Technical data and limits

Manufacturer FOE part number	8937-HN
Optical port sets	2 Rx/Tx pairs
Connector type	ST
Premium-cable span	Up to 2.0 km between FOEs
Typical optical budget	15 dB
Honeywell model reference	CC-PFE221
Optical fiber	Multimode 62.5/125 µm
Standard-cable span	Up to 1.5 km between FOEs
Minimum optical budget	8 dB
External supply	20–30 VDC

Data applicability

The optical and electrical figures are from Honeywell’s multimode FOE section, mapped to 8937-HN by its exact spare-parts table. Cable grade and loss determine achievable distance.

How should the A and B optical links of 8937-HN be kept distinct?

Honeywell specifies separate fiber paths for the redundant I/O links. Record the controller-side and remote-side FO1/FO2 transmit and receive routing before exchange, then prove each path independently.

What limits the usable fiber distance of 8937-HN?

The guide gives 1.5 km for standard cable and 2.0 km for premium cable between FOEs. Connector loss, splices, cable grade and the minimum 8 dB optical budget govern the actual link margin.

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03 / Configuration and uses

Maximum supply current	85–74 mA across supply range	**Operating ambient**	-20 to +70°C
Storage ambient	-20 to +85°C	**Relative humidity**	0–90% RH
Series C daisy-chain limit	4 km total	**PM I/O daisy-chain limit**	8 km total

The multimode FOE design has two optical port sets, each with a transmit and receive connection. The documented fiber is 62.5/125 µm with ST connectors. A standard-cable span is rated to 1.5 km and a premium-cable span to 2.0 km; actual acceptance still depends on connectors, optical loss and topology.

The original guide permits IOTA mounting or DIN-rail mounting with user-supplied power. Its specified external supply is 20–30 VDC at 85–74 mA maximum, operating ambient -20 to +70°C and minimum optical budget 8 dB. Honeywell requires separate A and B fiber runs for a redundant I/O link.

Applications

Remote Series C I/O

Carry one Series C I/O link to a remote cabinet using the matched copper interface and fiber extender pair.

Remote PM I/O

Use the dedicated PM I/O link interface cable and appropriate remote extender rather than sharing one module with a Series C path.

Redundant link A/B

Maintain independent optical paths for the two I/O links; verify both receive/transmit directions.

Multi-cabinet extension

Apply a documented point-to-point, star or daisy-chain topology within the overall distance and optical-loss limits.

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04 / Service and support

Isolate the carrier

Remove the module only after the affected controller and I/O link are in a safe maintenance state.

Record optical routing

Label link A and B, FO1/FO2 and transmit/receive fibers before unplugging.

Protect fiber interfaces

Keep unused optical connectors covered and clean; inspect the ST faces and bend radius.

Match the IOTA

Check the six-inch 8939-HN / CC-TFE021 IOTA and interface-cable variant against the installed cabinet.

Technical questions

What is the role of 8939-HN beside 8937-HN?

8939-HN is the six-inch FOE IOTA, referenced by Honeywell as CC-TFE021. Confirm its carrier connection and the correct gray or violet I/O-link interface cable for the installed link.

Technical enquiry

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