

# Panel Space Optimization

*Eliminating wires associated with 24V DC power and signal monitoring*

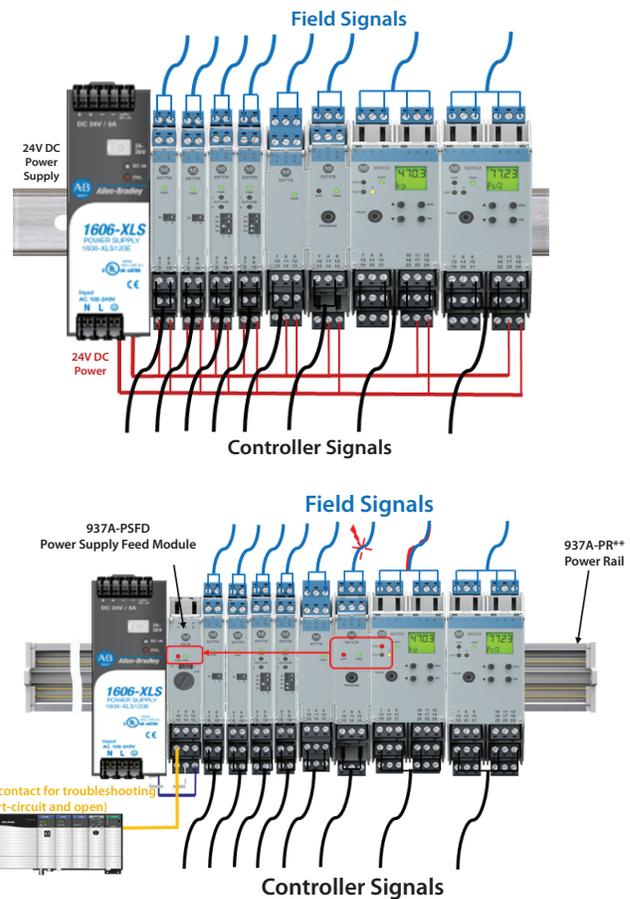
## Customer Need

Customers and panel designers select high density 12 mm wide 937 Intrinsic Safety (IS) modules to save panel space. Often, the next step is to investigate options to further optimize the panel in terms of wire reduction and the labor associated with making wire connections. A traditional IS module installation requires wiring for power control as well as from the controller to the IS module and to the terminal blocks for field device connections. This is a time consuming activity when installing a large number of IS modules.

A panel with eight 937T Isolators and 937C Converters (example at right) leads to at least 56 wire connections and considerable wire way fill. Taking five minutes to wire each connection would result in hours of wiring labor required for this application. In large scale applications even more time is required to complete this task.

## Component Solution

Consider the two-component 937 Power Rail System. The power rail supplies power to the individual modules and monitors each for lead breakage or short circuits. The power supply feed module links the power supply to the power rail and trips all attached modules in the case of a lead breakage, short circuit or power failure. This system reduces the number of wires to four per module (up to 33%) and introduces single I/O point troubleshooting for the entire power rail of IS modules. Migrating the previous example to make use of the Power Rail System reduces labor cost and simplifies the addition of new modules.



## Summary

The 937 Power Rail System is a cost-effective, space-saving solution designed to complement the 937 Intrinsic Safety modules. Capable of reducing wiring time and labor, introducing single I/O point troubleshooting and serving as a means to further optimize the panel, you can cut the power rail system to any length using ordinary panel shop tools.

## Product Selection

Description	Pkg. Qty.	Cat. No.
Power Feed Module	1	937A-PSFD
Power Rail (0.8M Option)	1	937A-PR08
Power Rail (2M Option)	1	937-PR20
Power Rail End Cap	10	937A-PREC

For more information on the 977 Intrinsic Safety Devices, please visit: <http://ab.rockwellautomation.com/Signal-Interface/Intrinsic-Safety>.

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