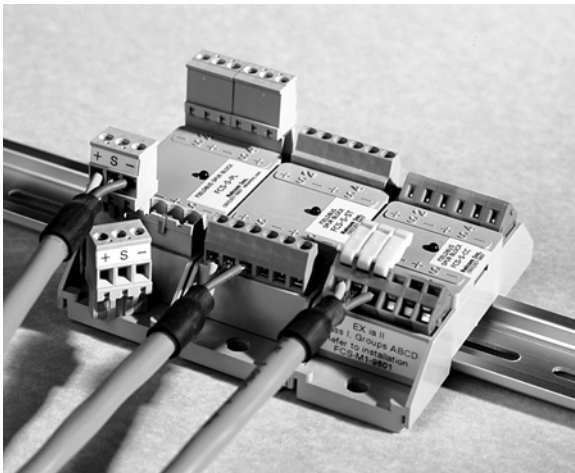


For new installations, please see our Megablock Connection Products.

The **Relcom Fieldbus Spur Block, FCS-S series**, provides four Fieldbus cable connections. For example, the Spur Block can be used in the home run to attach two devices to the middle of the Fieldbus. Several Spur Blocks may be used on a Fieldbus segment. When adding spurs to a Fieldbus segment, the total maximum spur length must not be exceeded as defined by the ISA S50.02 standard. Using a Spur Block allows the removal of a device cable from the Fieldbus without affecting other devices or the integrity of the segment wiring. The Spur Block can also be expanded with the Relcom Fieldbus Expander Block (FCS-E-xx) to provide four additional device connections. The Spur Block has an LED that illuminates to indicate when segment power is present. A built-in differential surge suppressor limits spikes that may be present on the Fieldbus which helps to protect attached devices from damage.



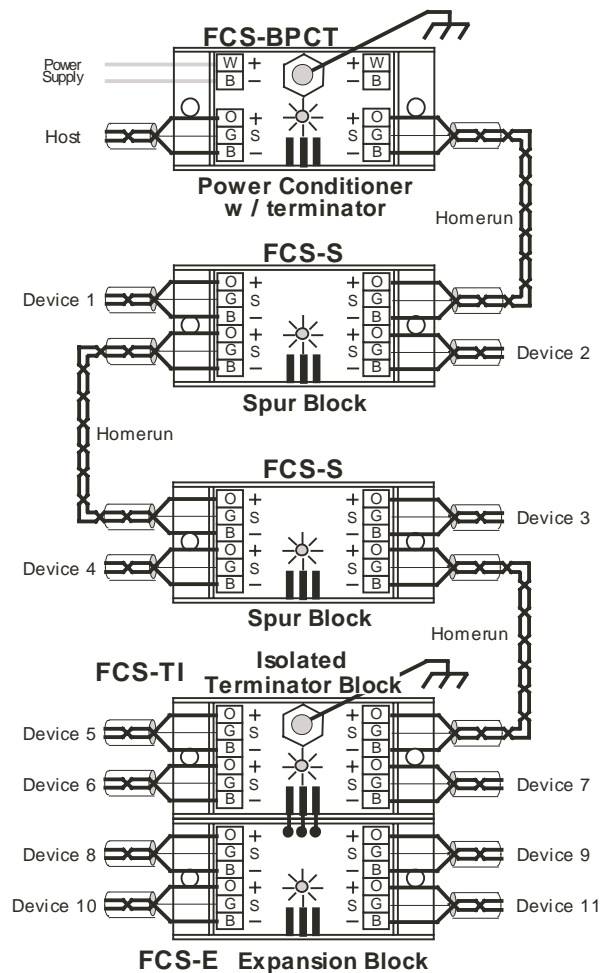
Spur Blocks are available with pluggable (FCS-S-PL), screw terminal (FCS-S-ST), or cage clamp connectors (FCS-S-CC). These options are pictured left to right in the above photo.

Use

Fieldbus devices are connected to the Spur Block with shielded twisted pair Fieldbus cable. Up to four connections may be made at the Spur Block. The connections are typically two homerun cables and one or two device cables. The Spur Block may be mounted on a flat surface with screws or on a 35mm DIN rail using the integrated sliding tabs. See the package outline on the next page for additional mounting and dimensional details.

Sample Topology

The topology below uses a power supply at the control room end of the Fieldbus segment. By using a Power Conditioner with an integrated Fieldbus terminator, the number of connector blocks is minimized. If Fieldbus devices need to be in or near the control room, an Expander Block can be plugged into the Power Conditioner to expand the number of Fieldbus connection points by four (4). The shields of the segment wiring are grounded by attaching the ground bolt on the Power Conditioner to a local ground. Grounding the bolt on the Isolated Terminator Block provides protection from shield currents induced by near lightning strikes but does not provide a DC connection to ground under normal operating conditions.



Product specifications are subject to change without notice.

Installation

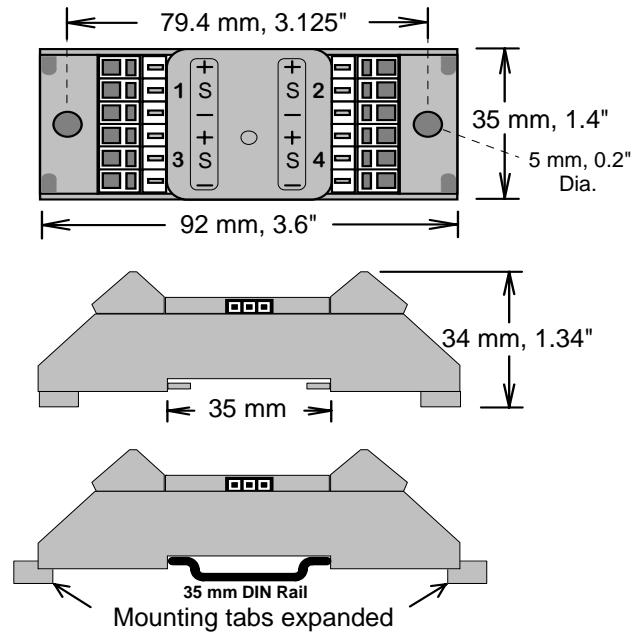
FCS-S series wiring blocks can be mounted vertically or horizontally within a suitable enclosure, such as a field junction box. They can be mounted directly or by using 35 mm DIN rail. They are secured to DIN rail by two extendable locking tabs.

DIN rail end stops are recommended to prevent sliding in vertical installations.

Specifications

Input Voltage:	9 — 32Vdc
Input Current:	1A max.
Temperature Range:	-45 to +70°C
LED Current:	3 mA max. at 32 VDC
Surge Limit Start:	39 Volts
Surge Limit (Hard):	43 Volts
Expansion connector:	One set female (gold plated)
Wire Capacity:	12-24 AWG
Case material:	Lexan Polycarbonate
Weight:	95 g

FCS Package Outline



CSA approved Intrinsically Safe and Non-Incendive Equipment for use in Hazardous Locations.

Class I, Division 1, Groups A, B, C and D;
Class I, Zone 0, Group IIC, IIB and IIA.

Class I, Division 2, Groups A, B, C, and D;
Ex nA IIC T4
AEx nA IIC T4

Part Numbers

FCS-S Series	Part Number
Spur Block with cage clamp type connectors	FCS-S-CC
Spur Block with pluggable screw terminal connectors (SpurGuard™ compatible)	FCS-S-PL
Spur Block with screw terminal connectors	FCS-S-ST
Accessories	Part Number
35 mm DIN Rail, 1 meter length	FCS-A01
DIN rail end stop	FCS-A02

Relcom Fieldbus Connection System (FCS) wiring blocks are protected by U.S. Patent 5,775,955

Relcom SpurGuard™ technology is protected by multiple U.S. Patents: 6,366,437 and 6,369,997 and 6,519,125