

Product Specification

FOUNDATION™ Fieldbus
Profibus PA

FCS-E-xx

For new installations, please see our Megablock Connection Products.

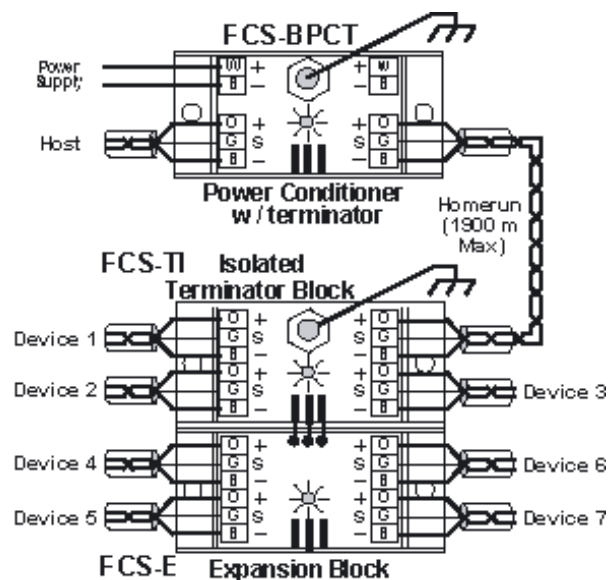
Network segments constructed using Relcom Fieldbus Connection System wiring blocks can be expanded for additional wire pair connections by using the **FCS-E-xx Expander Block**. Each Expander Block provides four more cable connection points. The Expander Block plugs into a Terminator, Spur Block, Power Conditioner, Power Hub, or another Expander block so that wiring between blocks is eliminated. As many Expander Blocks as needed can be used on a Fieldbus segment. The Expander Block has an LED that illuminates to indicate bus power is present.

Use

The Expander Block simply plugs into other Relcom wiring blocks and into other Expander blocks. All Relcom Fieldbus blocks may be mounted with screws to a flat surface or snapped onto a 35mm DIN rail. See the package outline on the back page of this sheet for dimensions and mounting information. If the Expander Block is to be mounted on a DIN rail, use an end stop, FCS-A02, to prevent separation of the plugged modules.

Sample Topology

In the example on the right, the power supply and one terminator are located at one end of the segment (usually near the control room). The home run or trunk cable runs into the field and connects to a field junction box. There, the home run cable is connected to a wiring block (FCS-TI-xx) that contains the second terminator for the segment. This configuration alone would allow for connection of three device spurs. With the addition of one Expander block (FCS-E-xx) the number of device spurs available on the segment is increased to seven. Two expander blocks would bring the total to 11 devices.



Product specifications are subject to change without notice.

Installation

FCS-E-xx 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.

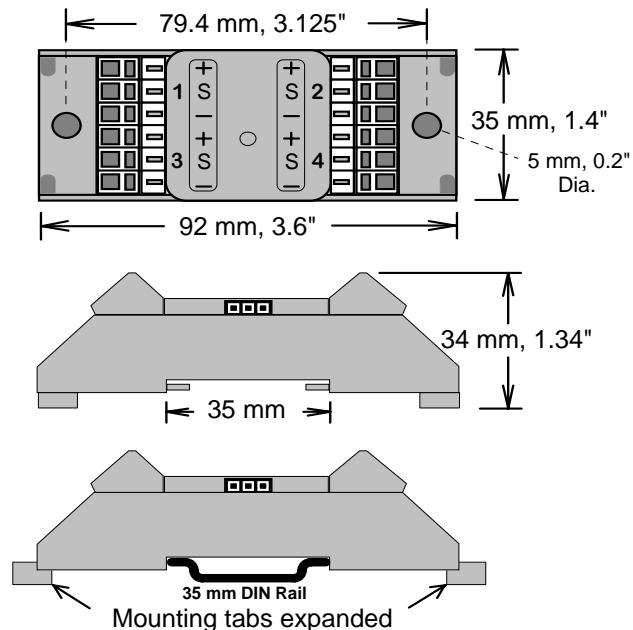
DIN rail end stops are recommended to prevent sliding in vertical installations.

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 One set male (gold plated)
Wire Capacity:	12-24 AWG
Case material:	Lexan Polycarbonate
Weight:	95 g

FCS Package Outline

(male expansion connector not shown)



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-E Series	Part Number
Expander Block with cage clamp type connectors	FCS-E-CC
Expander Block with pluggable screw terminal connectors (SpurGuard™ compatible)	FCS-E-PL
Expander Block with screw terminal connectors	FCS-E-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