General Specifications

FOUNDATION™ Fieldbus Profibus PA

F100

The **F100** is a Terminator for Foundation Fieldbus or Profibus PA. It is certified for use in ordinary locations and in Class I, Division 2 or Zone 2 hazardous areas. For Intrinsically Safe installations, refer to the **FCS-MBT** IS Megablock Terminator.

Foundation Fieldbus and Profibus PA share the same physical layer specification (IEC 61158-2). For this type of network, two Terminators are required on each segment. Usually one terminator is provided by the Power Conditioner in the Control Room. The **F100** is ideally suited to provide the Terminator that is normally in a junction box in the field (along with a Megablock for interconnecting devices). Not only does the **F100** include the Terminator, it also includes some differential and common mode (cable shield) surge protection.

A large "T" is placed on the **F100** label for easy identification of the Terminator location.

The **F100** is fully encapsulated to provide long life and resistance to contaminates.

Grounding

The Ground connection on the **F100** is used to shunt any surge currents that may get on the cable shield to a local ground in the junction box. Under normal operating conditions, the cable shield remains DC isolated from this local ground. Although the normal practice is to ground the cable shield in the control room, this additional ground connection will not cause ground loops. However, in the event of a voltage surge on the cable shield, a gas discharge tube in the **F100** fires and shunts this unwanted current to ground.

Specifications	
Mounting Requirements	35mm DIN Rail; IP40 (minimum) Enclosure
Wire Capacity	12-24 AWG, 2.5mm2 maximum
Case Material	Lexan Polycarbonate
Operating Temperature	–45°C to +70°C
Storage Temperature	–50°C to +70°C
Humidity	0 to 90% (non-condensing)
Screw Torque Range	0.5-0.6 Nm
Weight	49 grams
Input Voltage	32VDC maximum
Input Current	1.5A maximum (no DC current used by the F100)
Differential Mode Voltage Limit	39V (transient)
Common Mode Voltage Limit (shield)	75V (transient)

Product specifications are subject to change without notice.

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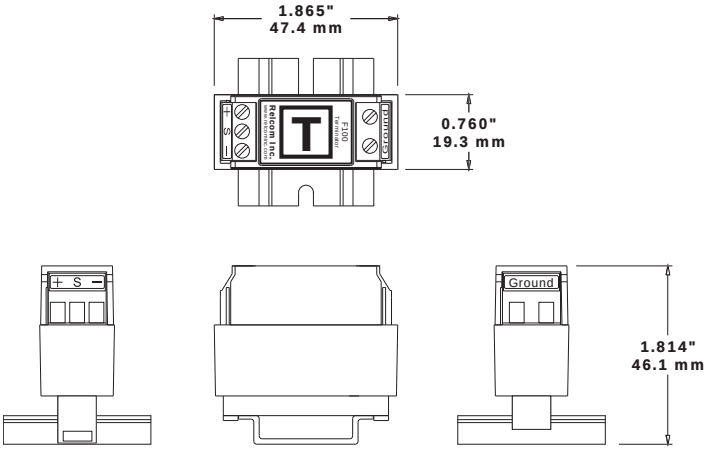
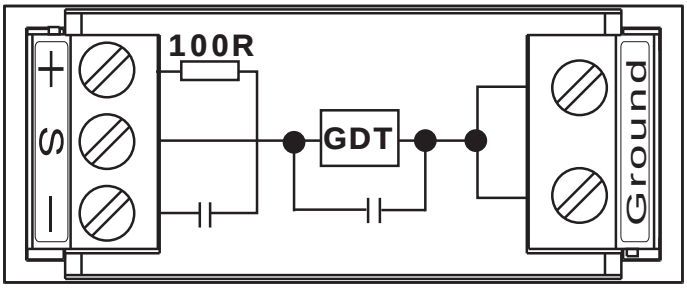
Dimensions



Internal Diagram



Related Documents:

PS-001: Megablock Product Overview
PS-002: Megablock Selection Guide
500-275: Megablock Installation Instructions
501-123: Relcom Fieldbus Wiring Guide

Accessories	Part Number
Heavy Duty DIN rail end stop	FCS-A06
35 mm DIN Rail, aluminum, 1 meter	FCS-A01

Approvals:

Region (Authority)	Standard	Certificate	Approved For	Ratings
EU	EN61326		Class A	CE
(Relcom)			Industrial Locations	
Canada	C22.2 No. 0—M1982	1198909	Class I, Div 2, ABCD, T4	Vmax = 32VDC
(CSA)	C22.2 No.1010.1-92		Ex nA IIC T4	Imax = 1.5A
	C22.2 No.1010.1B-97			
	T.I.L. No. I-29			
	C22.2 No. 157-92			
	C22.2 No. 213 - M1987			
	CAN/CSA-E60079-0-02			
	CAN/CSA-E60079-15-02			
USA	3600: 1998	3013269	Class I, Div 2, ABCD T4	
(FM)	3611: 1999		Class I, Zone 2, IIC T4	Same as Above
	3810: 1989			
EU	IEC 60079-0: 2009	RELC	Ex II 3 G Ex nA IIC T4 Gc	Same as Above
(Relcom)	IEC 60079-15: 2010	07ATEX1004X		