
Installation Instructions

FCS-MBT

IS Megablock Terminator

1010.1 Equipment Information

Equipment Class II, Pollution Degree 2, Installation Category II

Maximum Altitude: 2000m

Humidity: 0 to 90% (non-condensing)

Operating Temperature: -45°C to 70°C

For Indoor Use Only (IP40 minimum enclosure)

Electrical Ratings (see Drawing for connection information and certified devices)

Area Classification	Ratings	Drawing	Agency
General Purpose; Class I, Div 2 (Ex nA)	32VDC, 1.5A	MB-0107	CSA, FM, CENELEC
Class I, Div 1 (Ex ia, ib IIC)	24VDC, 250mA	MB-020108	CSA, CENELEC
Class I, Div 1 (Ex ia, ib IIC) FISCO	17.5VDC, 380mA	MB-020109	CSA, CENELEC
Class I, Div 1 (AEx ia IIC) T4	See Drawing	500-949	FM

Installation

Refer to the drawing that is appropriate for the area in which the FCS-MBT will be installed. These drawings represent typical installations and are intended to address the safety aspects of the area for which they are drawn. Actual segment connections may vary depending on factors such as the required number of Fieldbus devices to be connected to the segment (determines the specific models and quantities of Megablocks used).

IMPORTANT: For Megablock SpurGuards to work properly, the Fieldbus Segment **MUST** be isolated from ground.

Mounting

The FCS-MBT is designed to be mounted on 35 mm DIN rail using the clip mechanism on the bottom of each unit. Mounting can be vertical or horizontal. Use of DIN rail end stops is optional.

The FCS-MBT must be installed inside of an enclosure with a minimum rating of IP40.

Testing/Troubleshooting

The FCS-MBT performs two functions. First it provides one of the two Fieldbus Terminators that are required on every Foundation Fieldbus™ segment. Secondly, some surge protection is included in the device to protect the segment in the event of a near lightning strike. Neither of these functions is easily verified in the field. Please contact your local MTL representative or Relcom if you suspect a problem with the FCS-MBT.

Operation

There are no operational instructions for the FCS-MBT.

Maintenance Requirements

The FCS-MBT contains no user serviceable parts. Non-functioning units should be returned to the manufacturer for replacement or repair.

For Further Information

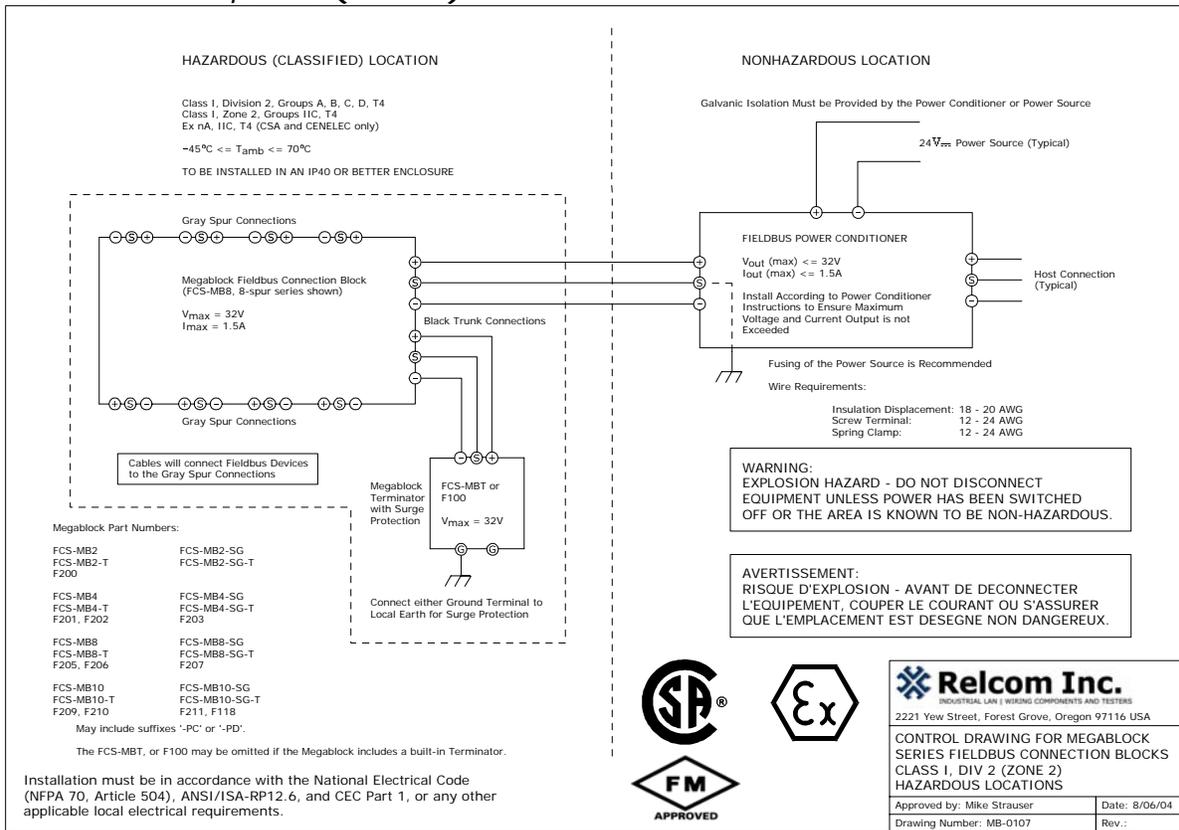
Contact your local MTL representative or Relcom Inc. as listed at the bottom of this page.



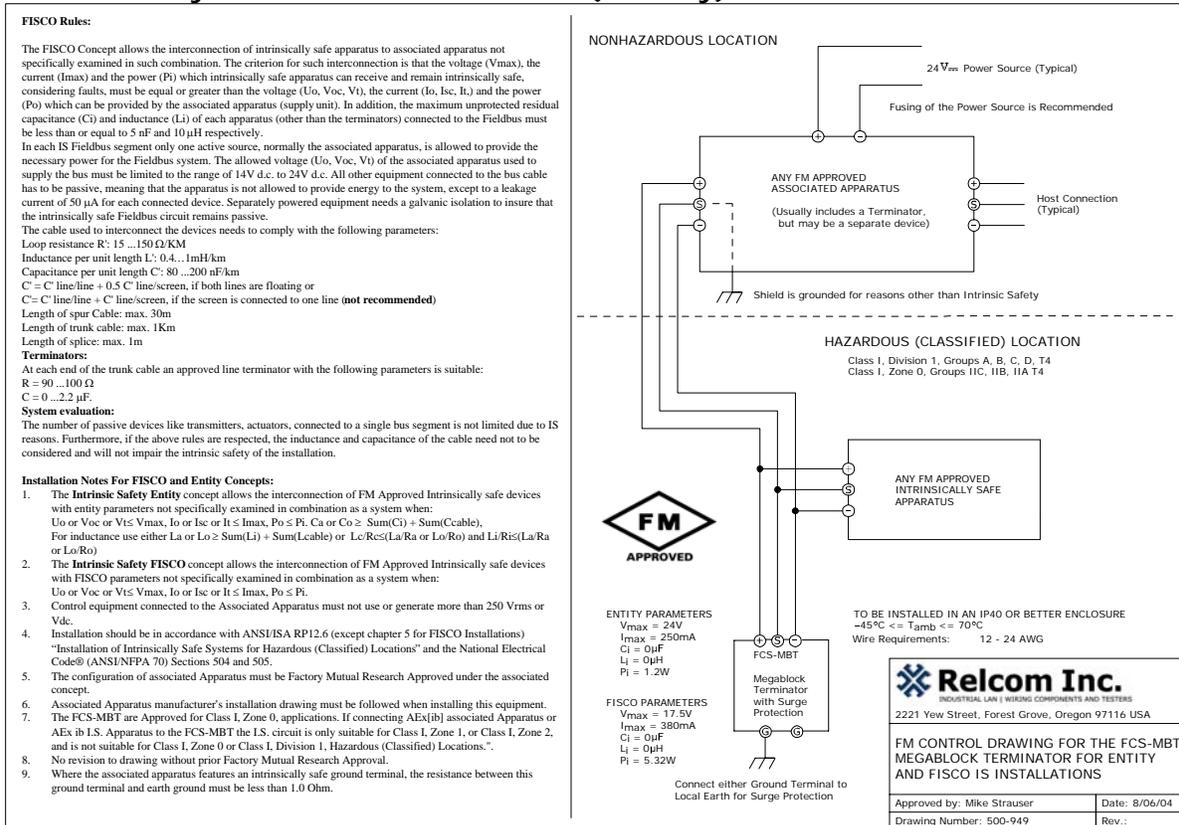
Relcom Inc.

INDUSTRIAL LAN | WIRING COMPONENTS AND TESTERS

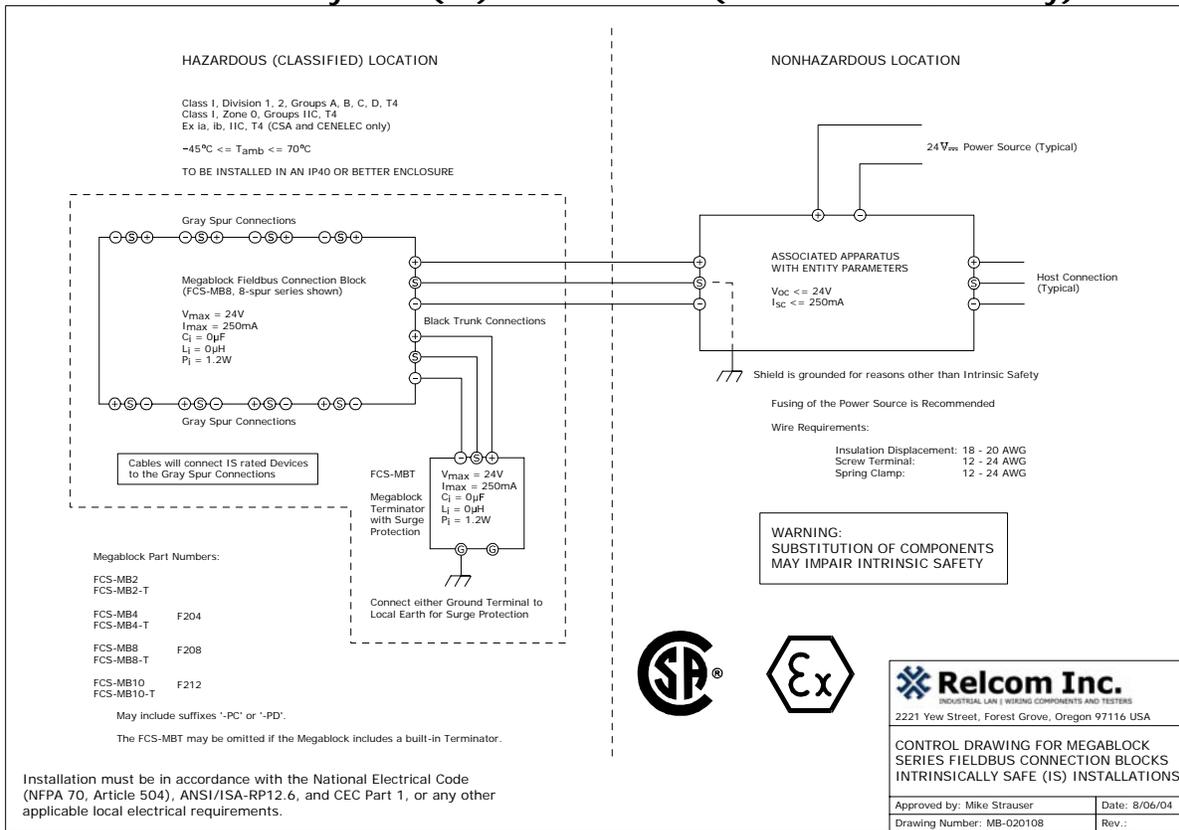
MB-0107: Class I, Div 2 (Zone 2) Installation



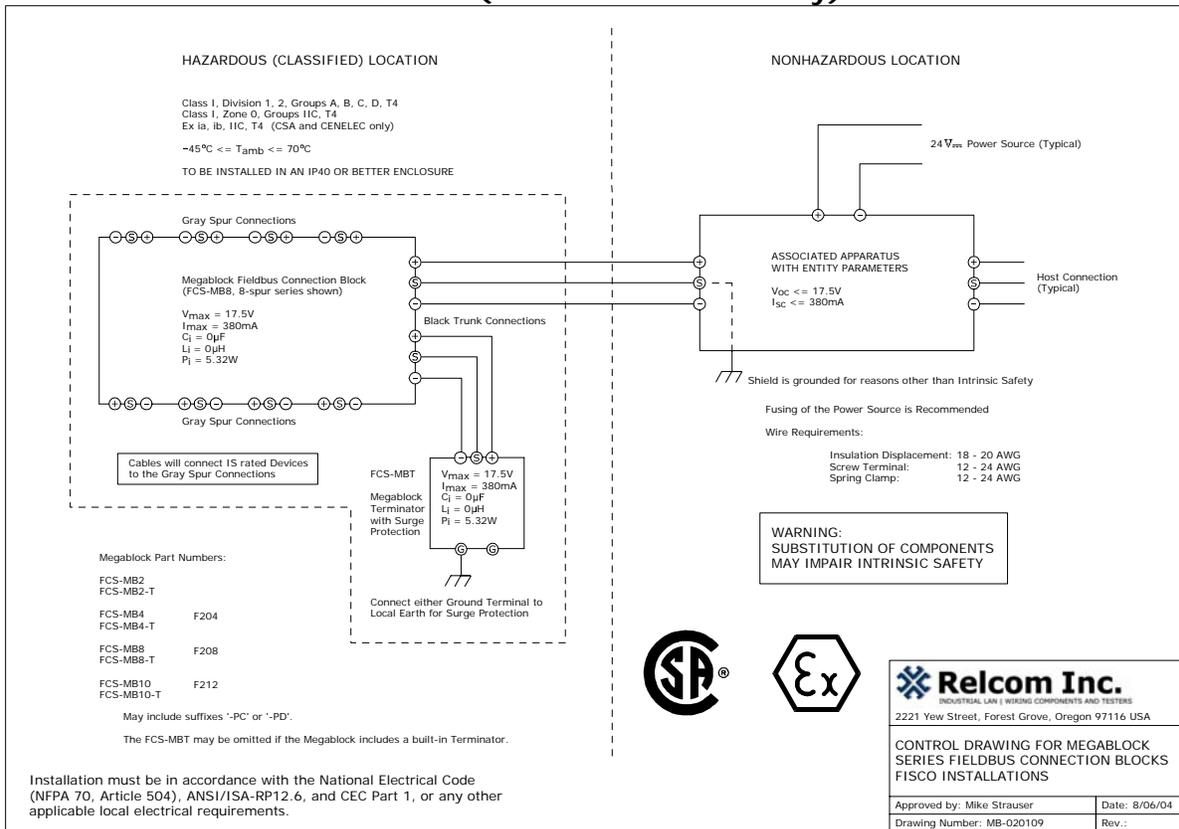
500-949: Entity and FISCO Installation - (FM only)



MB-020108: Intrinsically Safe (IS) Installation – (CSA and CENELEC only)



MB-020109: FISCO Installation – (CSA and CENELEC only)



Megablock Series EMC Summary

European Union EMC Tests in accordance with EN61326 EMC Product Family Standard for measurement, control and laboratory equipment.

Test Items: **FCS-MB8-SG, FCS-MBT**

Other products conforming based on these test results include:

FCS-MB2	F200	FCS-MB2-T	
FCS-MB2-SG		FCS-MB2-SG-T	
FCS-MB4	F201, F202	FCS-MB4-T	F203, F204
FCS-MB4-SG		FCS-MB4-SG-T	
FCS-MB8	F205, F206	FCS-MB8-T	F207, F208
FCS-MB8-SG		FCS-MB8-SG-T	
FCS-MB10	F209, F210	FCS-MB10-T	F211, F212
FCS-MB10-SG		FCS-MB10-SG-T	F118
F100			

European Union Electromagnetic Compatibility (EMC) Tests in accordance with EC Council Directive 89/336/EEC

Emissions Tests per EN61326

Result	Standard	Description	Port	Comments
N/A	EN61326	Radiated Emissions	Enclosure	Test Not Required
N/A	EN61326	Conducted Emissions	AC Mains	Test Not Required

Immunity Tests per EN61326 Annex A

Result	Standard	Description	Port	Criteria
Pass	EN61000-4-2	Electrostatic Discharge Immunity	Enclosure	B
Pass	EN61000-4-3	RF Electromagnetic Field Immunity	Enclosure	A
Pass	EN61000-4-4	Electrical Fast Transient/Burst Immunity	DC / IO Port	B
Pass	EN61000-4-5	Electrical Slow Transient Immunity	DC / IO Port	B
Pass	EN61000-4-6	RF Conducted Immunity	DC / IO Port	A
N/A	EN61000-4-8	Magnetic Field Immunity	N/A	N/A
N/A	EN61000-4-11	Voltage Dips/Short Interruptions Imm.	N/A	N/A

I, Mike Strauser, representative for Relcom Inc., verify that the product tested is representative of production products to be sold.

