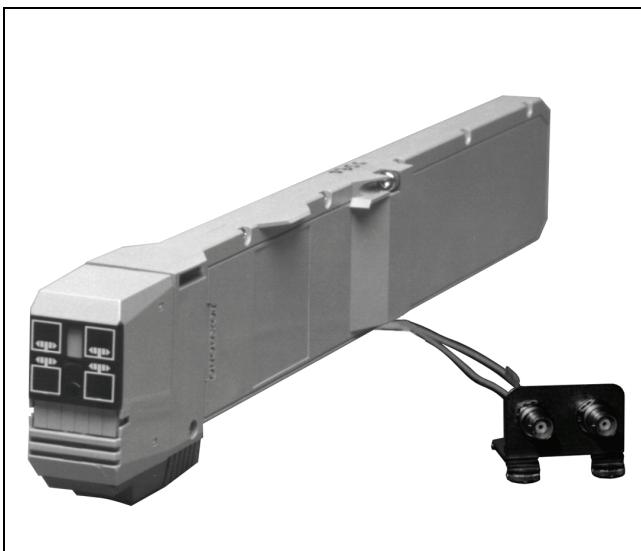


I/A Series® Hardware Fieldbus Isolator, FBI10E



The FBI10E Fieldbus Isolator allows the Control Processor 60 (CP60) to communicate with Y-Module form factor Fieldbus Modules (FBM01, FBM02, and so forth). It converts between 10 Mbps Ethernet Fieldbus signals used by the CP60 and HDLC signals used by the Y-Module form factor FBMs.

The FBI10E supports up to 24 FBMs, providing galvanic isolation between the Ethernet Fieldbus and the FBMs.

FBI10Es have a half-size Y-Module form factor, and install directly into a Field Enclosure 4, or into a 1x8 FBM or 1x12 FBM mounting structure. They can also be installed indirectly, via a Y-adapter, in Industrial Enclosures 16 and 32, the Industrial Metal Enclosures, or Field Enclosure 8.

Light-emitting diodes (LEDs) incorporated into the front of the FBI10Es provide visual status indications of their respective functions.

For redundant configurations, FBI10Es are used in pairs, one for the "A" and one for the "B" portion of the redundant Fieldbus. Typical implementation of the FBI10E is shown in Figure 1, and installation details are shown in Figure 2.

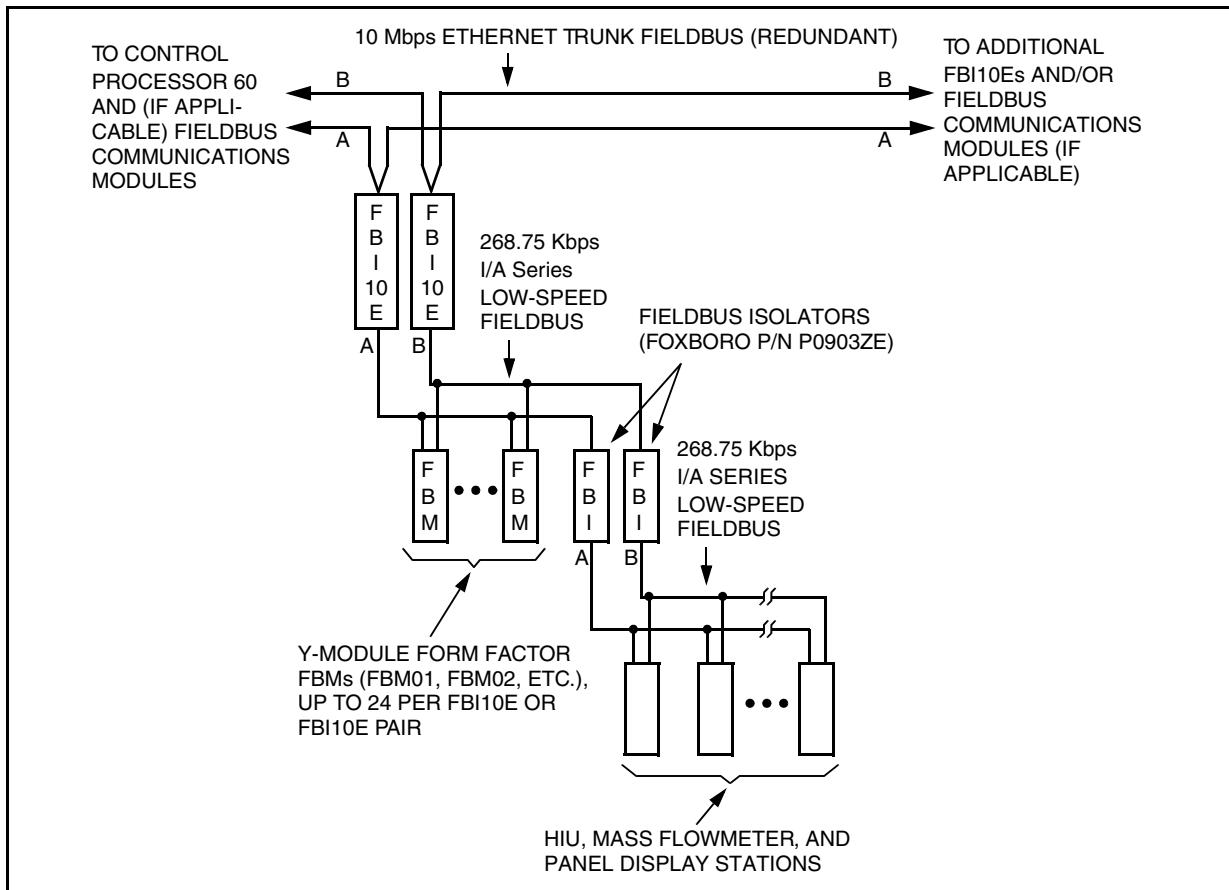


Figure 1. FBI10E, Typical Network Implementation

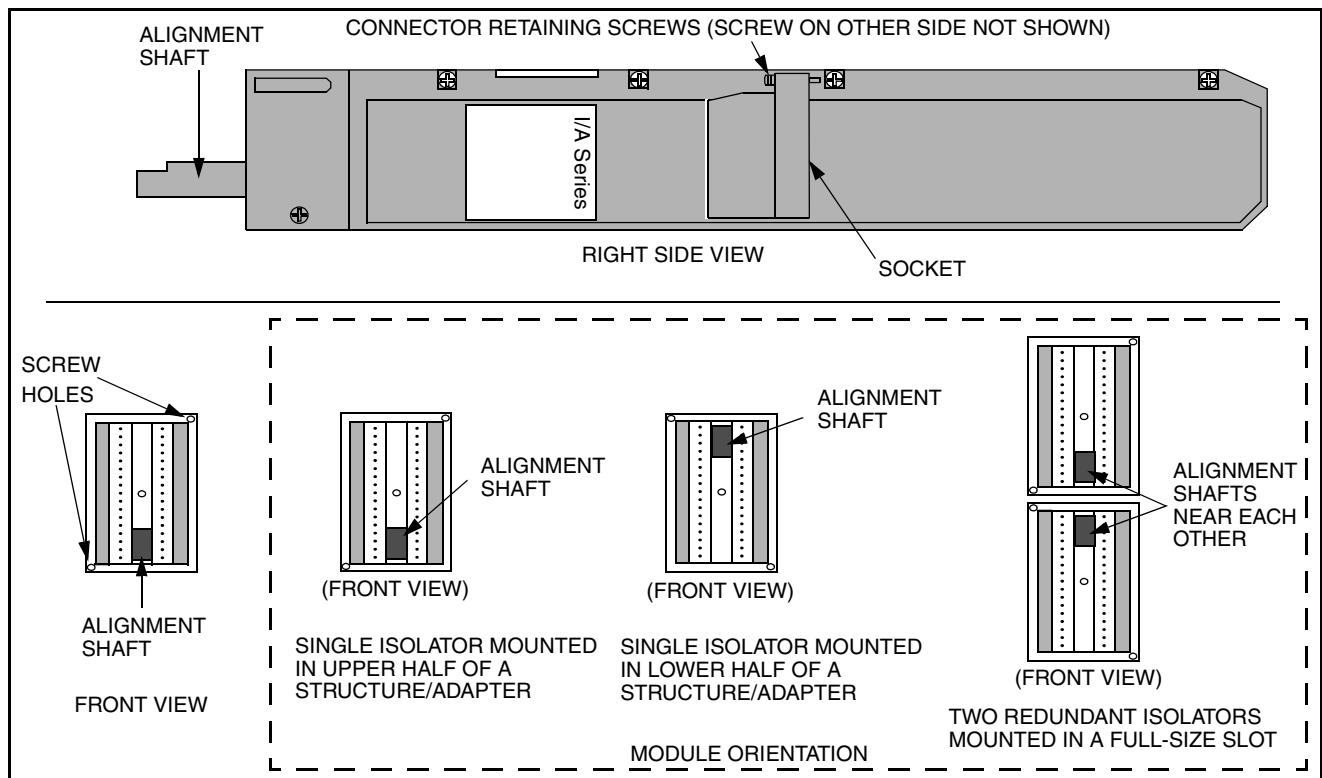


Figure 2. FBI10E, Installation Details

FUNCTIONAL SPECIFICATIONS

Indicators (mounted on termination connector assembly)

NETWORK ACTIVITY INDICATORS

CP60 to FBI10E

Active (Amber)

Inactive (Off)

FBI10E to CP60

Active (Amber)

Inactive (Off)

FBI10E to FBM_s (FBM01, FBM02, etc.)

Active (Amber)

Inactive (Off)

FBMs (FBM01, FBM02, etc.) to FBI10E

Active (Amber)

Inactive (Off)

INTERNAL CLOCK INDICATORS

Active (Green)

Inactive (Red)

Input Power

VOLTAGE

Normal Operating Range

26 V dc to 42 V dc

OPERATING CURRENT AT 26 V dc

350 mA, maximum

POWER DISSIPATION AT 42 V dc

7.5 W, maximum

Battery Backup Power

VOLTAGE

Typical

18 V dc

Minimum

15 V dc

Maximum under Battery Operation

21 V dc

ENVIRONMENTAL SPECIFICATIONS(a)**Operating****TEMPERATURE**

0 to 60°C (32 to 140°F)

RELATIVE HUMIDITY

5 to 95% (noncondensing)

ALTITUDE

-300 to +3,000 m (-1,000 to +10,000 ft)

Contamination

Class G3 (Harsh) as defined in ISA Standard, S71.04

Mechanical Vibration

0.5 g at 5 to 500 Hz

Regulatory Compliance

In compliance with European EMC directive 89/336/EEC.

Storage**TEMPERATURE**

-40 to +85°C (-40 to +192°F)

RELATIVE HUMIDITY

5 to 95% (noncondensing)

ALTITUDE

-300 to +12,000 m (-1,000 to +40,000 ft)

- (a) The environmental limits of this module may be enhanced by the type of enclosure containing the module. {Refer to the applicable Product Specification Sheet (PSS) which describes the specific type of enclosure that is to be used.}

PHYSICAL SPECIFICATIONS**Mounting****WITH Y-ADAPTER**

Installable in Industrial Enclosures 16 and 32, IEMFA/IEMFR, FEM 8, and Field Enclosure 8

WITHOUT Y-ADAPTER

Installable only in a 1x8, 1x8 FBM or 1x12 FBM mounting structure

Dimensions**HEIGHT**

2.63 in (69 mm)

WIDTH

1.4 in (36 mm)

DEPTH

17.9 in (413 mm)

Mass

0.3 kg (0.7 lb)

33 Commercial Street

Foxboro, MA 02035-2099

United States of America

www.foxboro.com

Inside U.S.: 1-866-746-6477

Outside U.S.: 1-508-549-2424

or contact your local Foxboro representative.

Facsimile: 1-508-549-4999

Invensys, Foxboro, and I/A Series are trademarks of Invensys plc, its subsidiaries, and affiliates. All other brand names may be trademarks of their respective owners.

Copyright 1999-2007 Invensys Systems, Inc.

All rights reserved

MB021

Printed in U.S.A.

0907