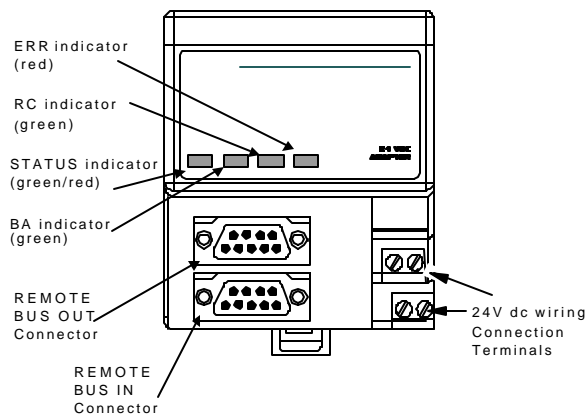


FLEX I/O Interbus-S Adapter 3170-INTB Interbus-S Installation Instructions

The following documents are available off the web site:

<http://www.prosoft-technology.com>

User & Programming Manual



Compliance to European Union Directives

If this product has the CE mark it is approved for installation within the European Union and EEA regions. It has been designed and tested to meet the following directives.

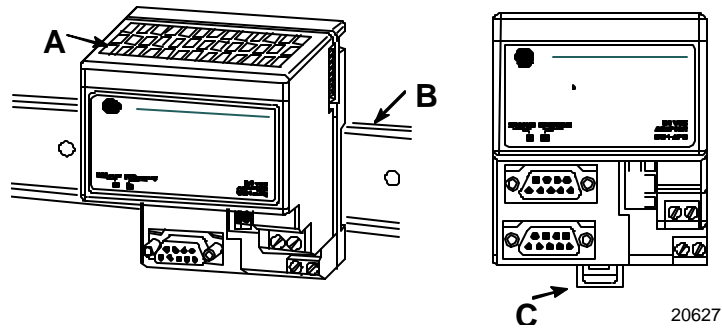
EMC Directive

This product is tested to meet Council Directive 89/336/EEC Electromagnetic Compatibility (EMC) and the following standards, in whole or in part, documented in a technical construction file:

- EN 50081-2 EMC - Generic Emission Standard, Part 2 - Industrial Environment
- EN 50082-2 EMC - Generic Immunity Standard, Part 2 - Industrial Environment

This product is intended for use in an industrial environment.

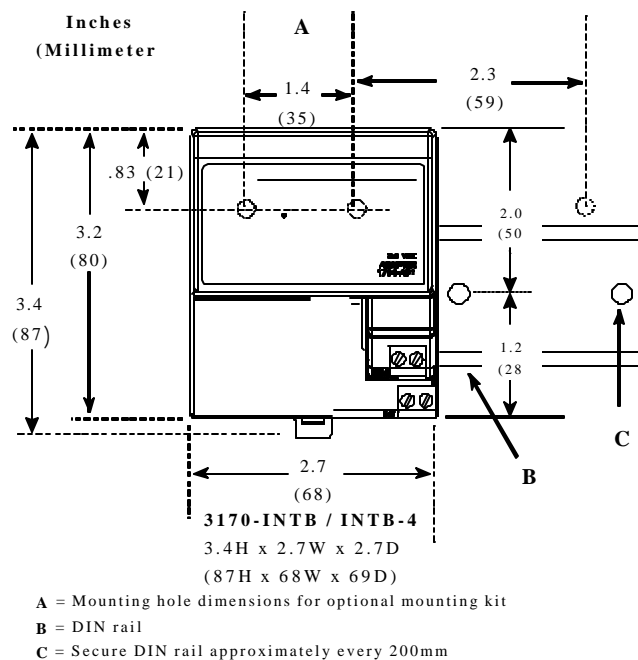
Mounting Instructions



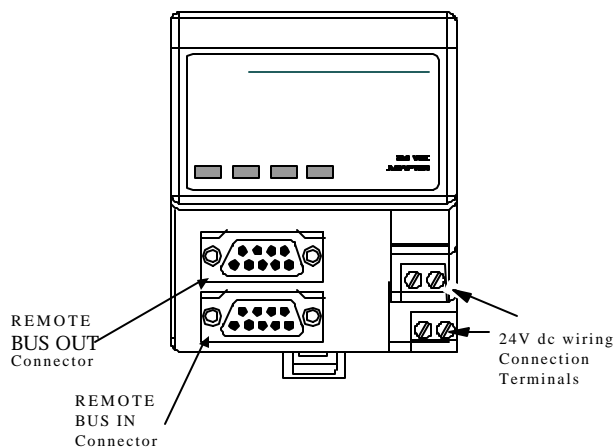
1. Position the adapter module (A) on a 35 x 7.5mm DIN rail (B) (A-B pt. no. 199-DR1; 46277-3; EN 50022) at a slight angle
2. Hook the lip on the rear of the adapter onto the top of the DIN rail, and rotate the adapter module onto the rail.
3. Press the adapter module down onto the DIN rail until flush. Locking tab (C) will snap into position and lock the adapter module to the DIN rail.
4. If the adapter module does not lock in place, use a screwdriver or similar device to move the locking tab down while pressing the adapter module flush onto the DIN rail and release the locking tab to lock the adapter module in place. If necessary, push up on the locking tab to lock.
5. Connect the adapter wiring as shown under Wiring.

NOTE: For Panel/Wall mounting, refer to publication 1794-2.13, Panel Mounting Kit, Cat. No. 1794-NM1.

Mounting Dimensions



Wiring



Connect the two INTERBUS-S cables to the 9-pin D-Shell connectors according to the following pin assignments:

Bus Connector - REMOTE BUS IN

Pin #	Signal	Description
1	DO1	Data Out
2	DI1	Data In
3	GND1	GND from unit before (isolated)
4	GND	GND to optional fiber optics (note1)
5	+5V1	VCC (isolated)
6	/DO1	Data Out
7	/DI1	Data In
8	+5V	VCC to optional fibre optics
9	NC	Not Used
	Metal Shell	P.E-2 (note 2)

Notes

1. These pins are only when using Interbus-S Fibre Optic 9 pin D-sub units
2. P.E-2 from BUS IN cable shield must not be connected to the actual P.E of the Adapter. P.E-2 is internally connected via 1 MOHM and 15 nF to P.E. This must be observed when using conductive housings of the BUS-IN and BUS-OUT, that these two connectors must be isolated from each other.

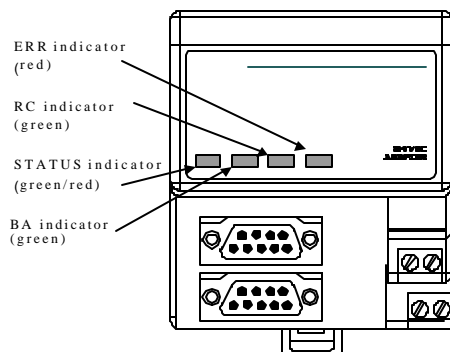
Bus Connector - REMOTE BUS OUT

Pin #	Signal	Description
1	DO2	Data Out
2	DI2	Data In
3	GND	GND from unit before (isolated)
4	GND	GND to optional fiber optics (note1)
5	+5V	VCC (isolated)
6	/DO2	Data Out
7	/DI2	Data In
8	+5V	VCC to optional fibre optics (note 1)
9	/RBST	Check of last unit on the Interbus-S Network (Note 2)
	Metal Shell	P.E-2 (note 3)

Notes

1. These pins are only when using Interbus-S Fibre Optic 9 pin D-sub units
2. If the module is not the last one in the Interbus Network, the /RBST pin should be connected to the +5V (Pin 5) in the outgoing bus connector.
3. P.E from BUS OUT is internally connected to PE. It must be observed when using conductive housings of the BUS-IN and BUS-OUT, that these two connectors must be isolated from each other.

LED Indicators



STATUS Indicator

Indication	Status
OFF	No power
Solid Green	Normal operation
Flashing	Recoverable fault
Red/OFF	- Flex I/O module defective - Incorrect Flex I/O module installed
Solid Red	Unrecoverable fault

Interbus-S BA Indicator

Indication	Status
OFF	Bus not Active
Solid Green	Normal Operation

Interbus-S RC Indicator

Indication	Status
OFF	Incoming Remote Bus not connected
Solid Green	Normal Operation

Interbus-S ERR Indicator

Indication	Status
OFF	Normal Operation
Solid Red	Outgoing Remote Bus not enabled

3170-INTB Specifications

3170-INTB Flex I/O Interbus-S

Adapter Specifications

I/O Capacity	8 modules (3170-INTB) 4 modules (3170-INTB4)
Input Voltage Rating	24V dc nominal
Input Voltage Range	19.2V to 31.2V dc (includes 5% ac ripple)
Communication Rate	0.5 Mbit/s
Indicators	STATUS LED - red/grn INTERBUS-S BA - Green INTERBUS-S BA - Green INTERBUS-S LED - red
Flexbus Output Current	640mA maximum @ 5V dc
Isolation Voltage	850 VDC for 1s between user power and flexbus
Power Consumption	400 ma maximum from external 24V dc supply
Power Dissipation	7.68W maximum @ 19.2V dc
Environmental Conditions	Operational Temperature Storage Temperature
	0 to 55°C (32 to 131°F) -40 to 85°C (-40 to 185°F)
Interbus-S Connector	Two 9-pin D-shell
Interbus-S Drop Cable	Standard 6 wire with shield
Power Conductors	
Wire Size	12 gauge (4mm ²) stranded maximum 3/64 inch (1.2mm) insulation max. ² ₁
Category	

¹ Use this conductor category information for planning conductor routing. Refer to publication 1770-4.1, "Industrial Automation Wiring and Grounding Guidelines."