G002240

Bus Isolator M

Part no. 5100069, 5100071

System: Salwico Cargo, Salwico Cruise, Salwico Ro/Pax, Salwico Workboat, Salwico Yacht, CFD5000, CGD50/500, CGS50/500

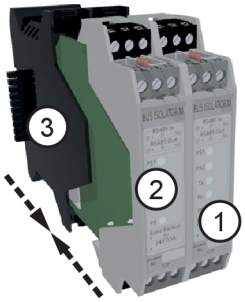
General Description

Bus Isolator M divides the backbone bus into segments. Its dual functionality isolates communications and basic backup signals between the stretched system parts and provides power to the control panel (e.g. Control Panel M 4.3).

For details on assembling a system and definitions of common system terms, refer to the Installation Manual.

About the datasheet

This data sheet contains product information for the following units (1), (2) and (3):



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Item	Part name
1	PCB module
2	PCB module
3	Housing

Data

Operating voltage range	19-30 VDC
Current consumption (at 24V)	30 mA
Cable terminals	2.5 mm^2
Operating temperature range	-40°C to +70°C
Weight (with housing)	210g ±5%
Spare part no. (one isolator, without housing)	5100069-01A
Certified according to	2531/yyyy yyyy = year of production

Parts Fire:

Item	Part name	Part no.
1&2&3	Bus Isolator M (fully assembled)	5100071-02A
1+2+3	Bus Isolator M (delivered as three parts)	5100071-01A
1	Spare part: PCB module	5100069-01A
2	Spare part: PCB module	5100069-01A
3	Spare part: Housing 35	5100104-01A

Parts Gas:

Item	Part name	Part no.
1&2&3	Bus Isolator M (fully assembled)	5100071-22A
1+2+3	Bus Isolator M (delivered as three parts)	5100071-21A
1	Spare part: PCB module	5100069-20A
2	Spare part: PCB module	5100069-20A
3	Spare part: Housing 35	5100104-01A

Channel selector

Two Bus Isolator M are required per segment since there are two backbone channels and one Bus Isolator M only isolates one channel. The channel selector DIP switch must be set to BBE1 on the first Bus Isolator M and set to BBE2 on the second Bus Isolator M.

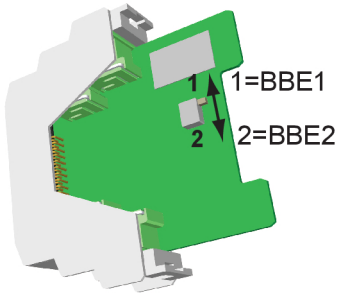


Figure 1. BBE = Backbone Bus External

Indicator	Indicator color	Status
PS1 (Input voltage 1)	None	OK
	Yellow	No input voltage Fuse 1 blown
PS2 (Input voltage 2)	None	OK
	Yellow	No input voltage Fuse 2 blown
Tx (RS485)	Green	OK
	None	No communication
Rx (RS485)	Green	OK
	None	No communication
PS (Internal Power supply)	Green	OK
	Yellow	Internal power fault

Indicators

The LEDs on the Bus Isolator M indicate the status of the inputs/outputs.

Connections

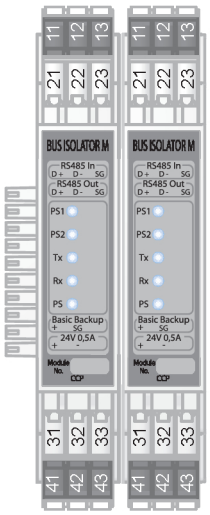


Figure 2. Two Bus Isolator M

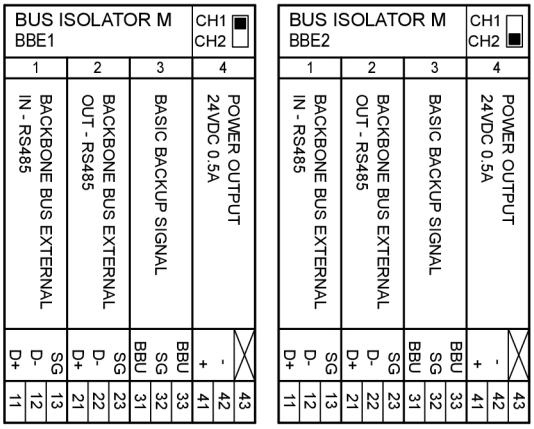


Figure 3. Terminal drawing of two Bus Isolator M

CAUTION!

A 2 kΩ resistor is pre-fitted between terminals 31 and 32.

- Remove the resistor if the Basic Backup (BBU) output is being used.
- Ensure the resistor remains fitted if the terminals are not in use. If the resistor is missing when the BBU signal is activated (fire alarm), it will not be possible to reset the alarm.

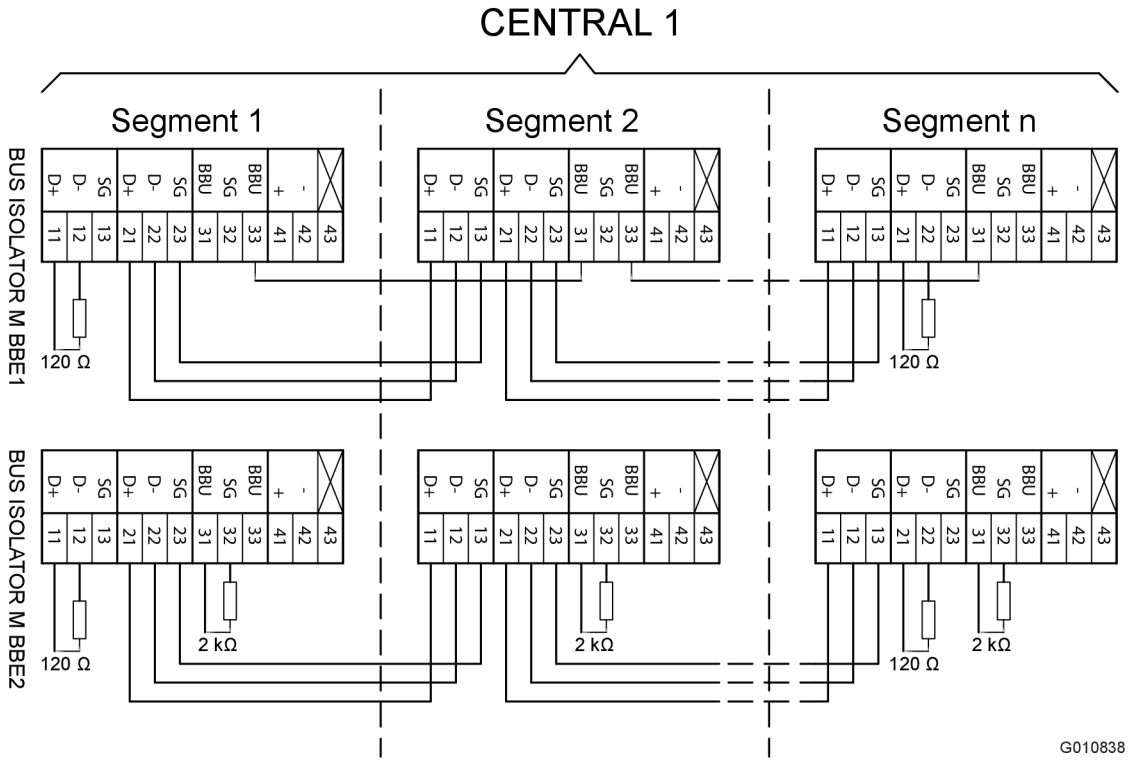


Figure 4. Example of BBE connection between two (or more) backbone segments in one spur

NOTE!
Only one of the Basic Backup (BBU) channels shall be connected.

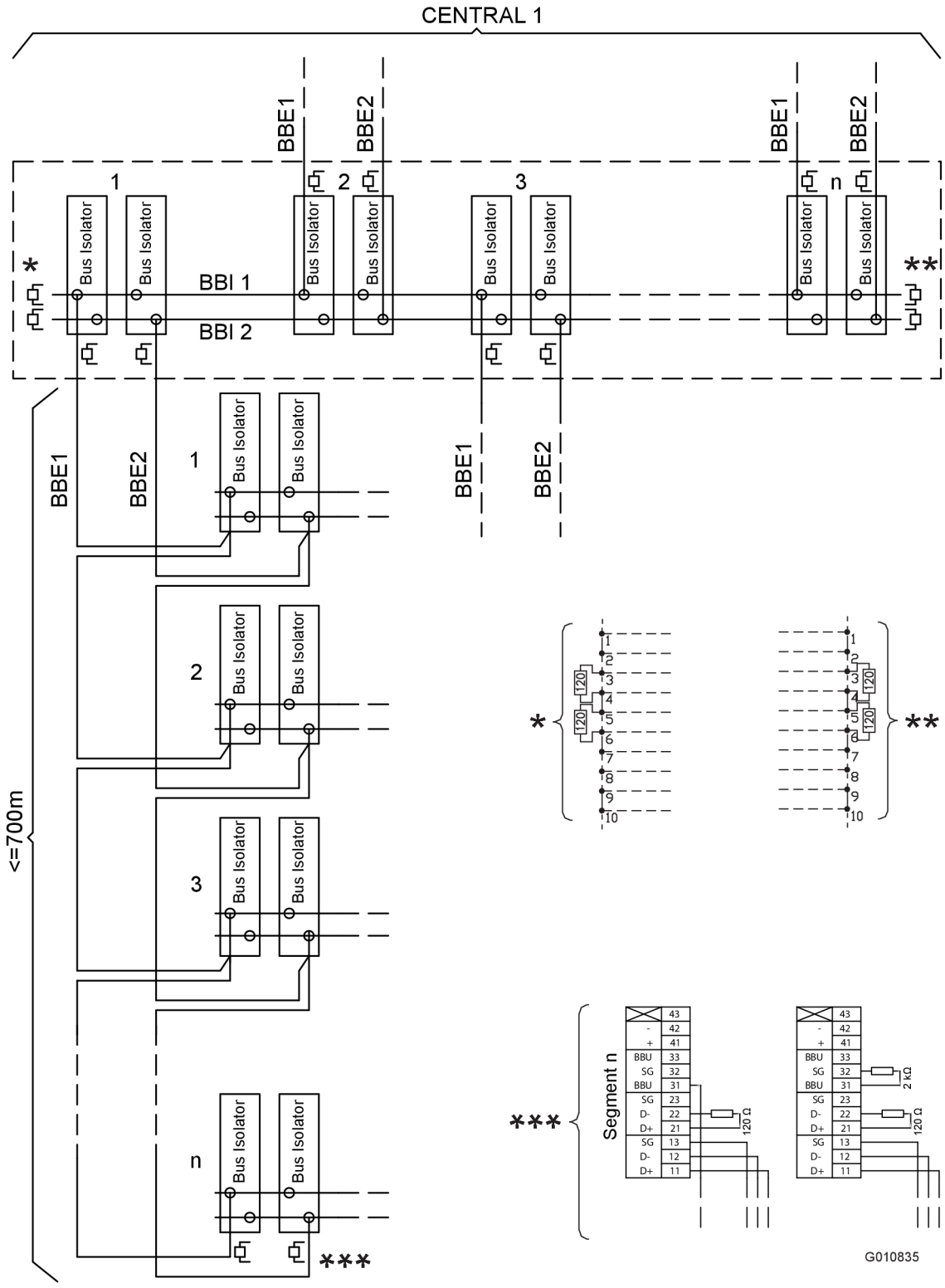


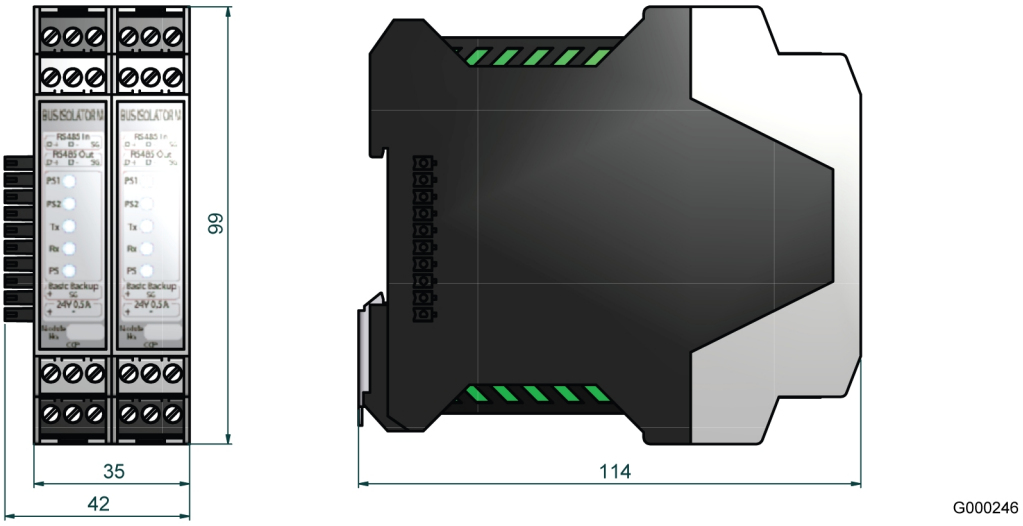
Figure 5. Example of BBE connection between three (or more) backbone segments (1, 2, 3, n) in several spurs

BBE = Backbone External, BBI = Backbone Internal, ⊏ = 120 ohm resistor. Use twisted pair cables for the BBE connections. See Figure 4. regarding the BBE, BBU and resistor specific connections.

Mounting

Mount the module on a horizontal 35 mm DIN rail.

Module Dimensions (mm)



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