



G002240

# Bus Isolator M H

Part no 5100071-01A

## General Description

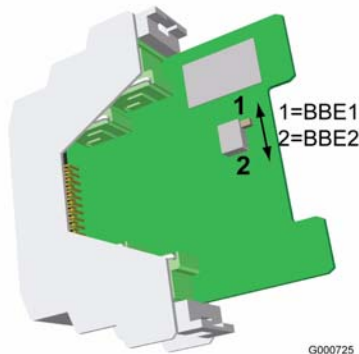
Bus Isolator M divides the system backbone bus into galvanic isolated segments. Its dual functionality isolates communications and basic backup signals between the stretched system parts and provides power to the control panel (e.g. Control Panel M 4.3).  
For details on assembling a system and definitions of common system terms, refer to the Installation Manual.

## Data

Operating voltage range	19-30 VDC
Current consumption (at 24V)	30 mA
Basic Backup	+
Cable terminals	2.5 mm <sup>2</sup>
Operating temperature range	-40°C to +85°C (Tx)
Weight (with housing)	120g
Spare part no. (one isolator, without housing)	5100069-01A
Certified according to	EN 50155

## Channel selector

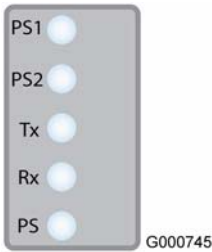
The Bus Isolator M isolates one channel only, so two modules are needed per central. Select the appropriate channel with the channel selector.



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## Indicators

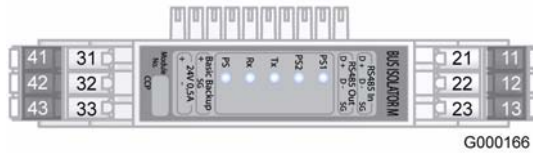
The LEDs on the Bus Isolator M indicate the status of the outputs.



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Indicator	Indicator color	Status
PS1 (Input voltage 1)	Green	OK
	Yellow	No input voltage Fuse 1 blown
PS2 (Input voltage 2)	Green	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

## Connections



BUS ISOLATOR M BBE1				BUS ISOLATOR M BBE2			
1	2	3	4	1	2	3	4
BACKBONE BUS EXTERNAL IN - RS485	BACKBONE BUS EXTERNAL OUT - RS485	BASIC BACKUP SIGNAL	POWER OUTPUT	BACKBONE BUS EXTERNAL IN - RS485	BACKBONE BUS EXTERNAL OUT - RS485	BASIC BACKUP SIGNAL	POWER OUTPUT
D+ 11	D- 12 SG 13	BBU 31	24V 0.5A D+ 41 D- 42	D+ 11	D- 12 SG 13	BBU 31	24V 0.5A D+ 41 D- 42

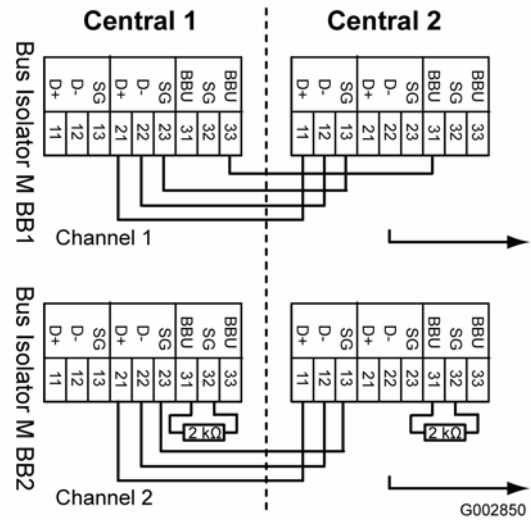
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### Note!

A resistor, 2 k $\Omega$ , is pre-fitted between connectors 31 and 32. Remove the resistor if the output is being used.

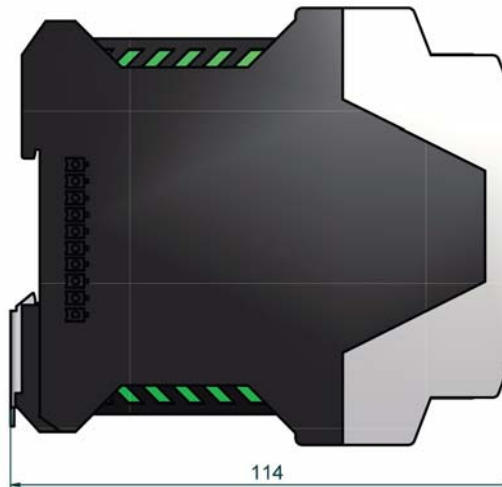
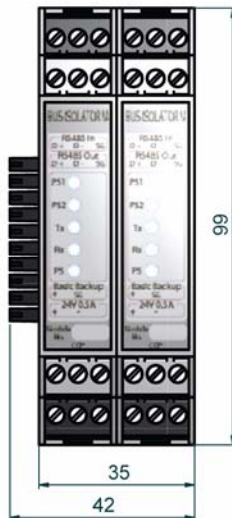
Figure 1. Example of BBE connection between two centrals



### Note!

Only one of the Basic Backup channels shall be connected.

## Module Dimensions (mm)



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## Mounting

Mount the module horizontally on a 35 mm DIN rail.