

Control Unit Module

# MOD SEP 2

Product code: PW-079-A



Reliability



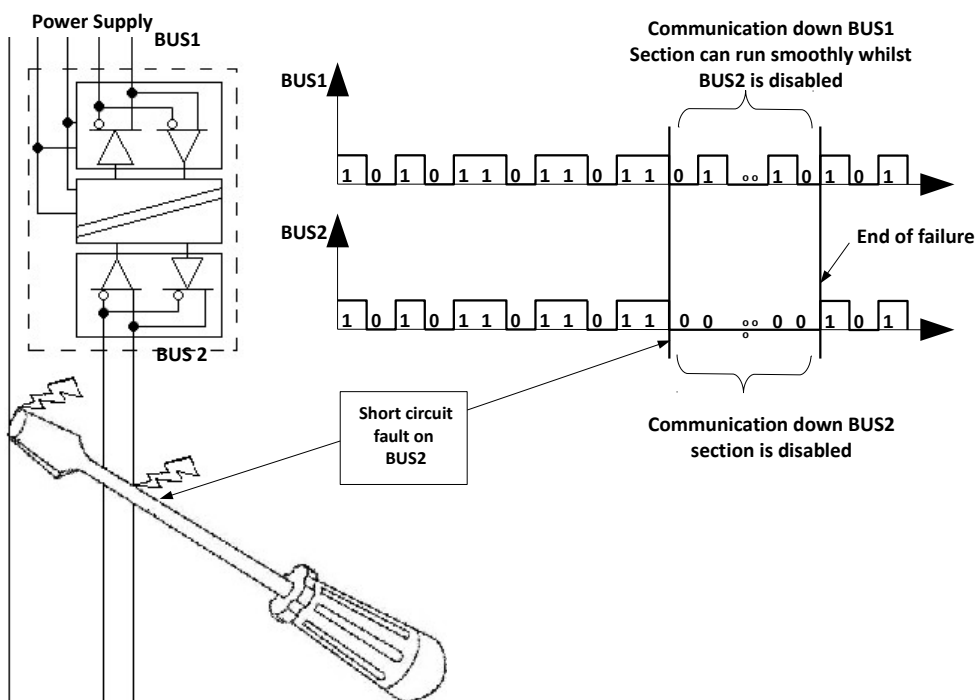
Integrity



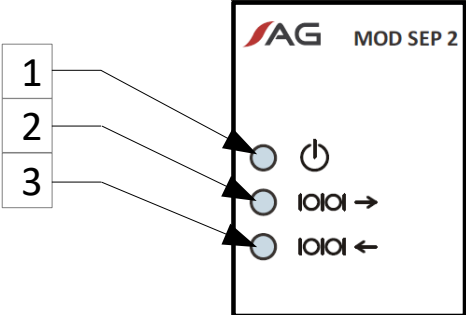
## About the product

Application of **MOD SEP 2** enables galvanic separation between BUS1 and BUS2 data bus sections.

In addition, the device enables isolation of a data bus section with a defective device connected to it. For instance, if a number of appliances are connected to a serial data bus, a failure of any of these device normally disables communication down the entire data bus. Installation of **MOD SEP 2** units enables copping of the bus into individual sections and makes it possible to isolate only a single section of the bus when a device connected to that bus section is failed, with undisturbed communication down the remaining part of the data bus. After the defect disappears or is remedied, the **MOD SEP 2** unit is again transparent for signals transmitted down the serial bus.

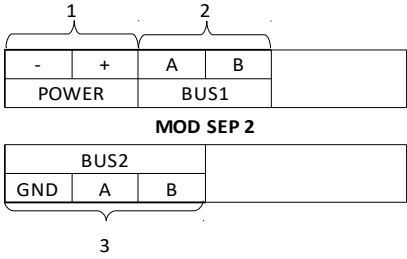


## User interface



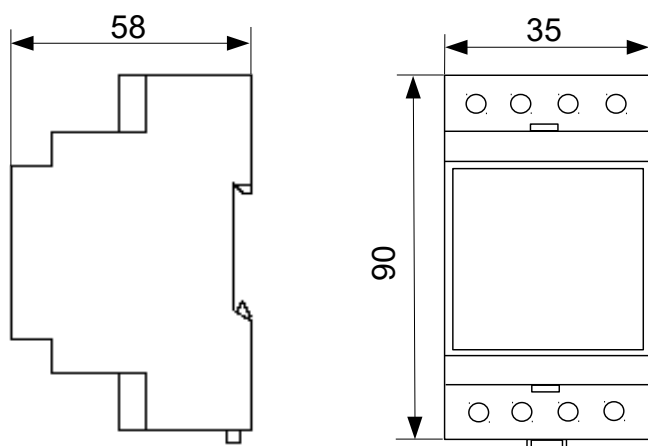
LED Controls				
No.	Symbol	Colour	Function	
1	⏻	Green		Indicating LED is on – power voltage is supplied to the device
				Indicating LED is off – power voltage is not supplied to the device
2	IOIOI →	Green		Indicating LED is blinking – data flow from BUS1 section to BUS2 section is pending
				Indicating LED is continuously on or off – transmission line is defective or no transmission at the moment
3	IOIOI ←	Green		Indicating LED is blinking – data flow from BUS2 section to BUS1 section is pending
				Indicating LED is continuously on or off – transmission line is defective or no transmission at the moment

## Electric interface



No.	Name	Terminal	Description
1	POWER	-	Power supply port for the device
			Negative
		+	Positive
2	BUS1	A	Communication port
		B	Signal line B
3	BUS2		Communication port
		A	Signal line A
		B	Signal line B
		GND	Common neutral

## Dimension



## Technical specification

Power supply	
• Voltage $V_{cc}$	10 – 30 V $\overline{=}$
• Power	1.5 W
Environment:	
• Ambient temperatures	-10 – +55 °C
• Humidity	0 – 100% long term, non-condensing
• Pressure	1013 $\pm$ 10% hPa
IP	IP20
Digital communication parameters	
• Electric standard	RS-485
• Baud rates	4800 – 115200 b/s

Integrated signalling equipment (visual)	LED controls
Isolation strength of galvanic separation	1000 V
Protection class	III
Acceptable cables	0.2 – 2 mm <sup>2</sup>
Enclosure material	Self-extinguishing PPO
Weight	60 g
Mounting	On DIN-35/TS35

## Product marking

Product code	Device
PW-079-A	MOD SEP 2 Control Unit Module

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