

MIMIC DRIVER BUR-200

Autoprime Interactive Fire Detection System Product Datasheet

Features

- 1 Mimic Driver is capable of driving 32 current limited LEDs
- 1 Mimic Driver is provided with 8 standard monitored inputs
- A maximum of 8 Mimic Drivers can be connected to the RS-485 Panel Bus, providing a total of 256 outputs and 64 monitored inputs
- Powered by 24 VDC, redundant, monitored
- Lamp test
- LED intensity control
- Snap-on to DIN rail (TS-35)
- Designed to meet EN 54 and SOLAS requirements, and conforms to CE standards

Application/Description

The BUR-200 is a Mimic Driver hat is capable of driving 32 LEDs with series resistors on a mimic panel for additional indication of alarms. In addition, 8 standard monitored inputs can be used to reading various switches.

The Mimic Driver is connected to the RS-485 Panel Bus.

Power redundancy is achieved by using a daisy-chain connection with master and slave drivers.

Switch Settings

RS-485 termination and board mode switch.

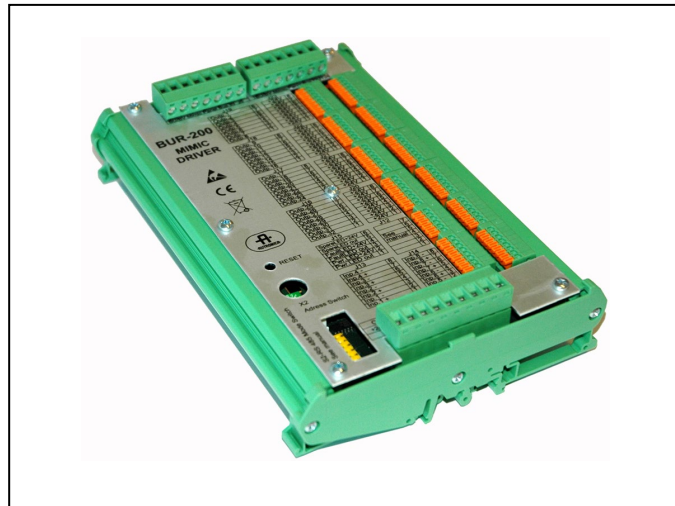
Switch	Description
S2.1	RS-485 3 Failsafe termination
S2.2	(see description below)
S2.3	RS-485 3 Line termination
S2.7	BUR-200 Master/Slave select (ON: Master, OFF: Slave)

Switch Settings Failsafe and line Termination

Master and the last* Slave: The switches S2.1, S2.2 and S2.3 are to be set to ON.

Other Slaves: The switches S2.1, S2.2 and S2.3 are to be set to OFF.

*Refer to connection Overview – Master/Slave Drivers.



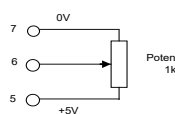
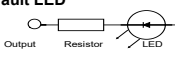
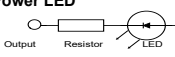
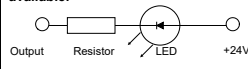
X2 Panel Bus Address Switch

If S2.7 is set to Master, X2 sets the panel bus address. If S2.7 is set as a slave, X2 sets the RS-485 daisy-chain slave address. The range for the switch is 1-9.

Technical specifications	
Dimensions (mm)	181 x 125 x 40
Weight	300
Materials	Polyamid / aluminium
Mounting	On DIN-rail (TS-35)
Operating temperature	- 15 °C to + 70 °C
Storage temperature	- 40 °C to + 70 °C
Humidity	0 to 95% non-condensing
Power supply	24 VDC (18-32V)
Current consumption	Maximum 25 mA
Total load BUR-200	Maximum 500 mA
Communication	RS-485 panel bus

Part number	Description
116-BUR-200	Mimic Driver BUR-200

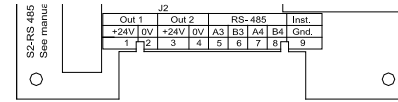
J19	J23	
Outp.1	8 +24V	
Outp.2	7 +24V	
Outp.3	6 +24V	
Outp.4	5 +24V	
Outp.5	4 +24V	
Outp.6	3 +24V	
Outp.7	2 +24V	
Outp.8	1 +24V	
J18	J22	Terminals for LED outputs.
Outp.9	8 +24V	
Outp.10	7 +24V	Each output is an open collector which is connected to 0V at activation.
Outp.11	6 +24V	
Outp.12	5 +24V	
Outp.13	4 +24V	Each output has an adjacent terminal for 24V supply to the LED.
Outp.14	3 +24V	
Outp.15	2 +24V	
Outp.16	1 +24V	Max.current per output is 25 mA. Max.total current for all 32 outputs: 500 mA
J17	J21	The LED must have a serial resistor. LEDs with flying leads and built-in serial resistors are available.
Outp.17	8 +24V	
Outp.18	7 +24V	
Outp.19	6 +24V	
Outp.20	5 +24V	
Outp.21	4 +24V	
Outp.22	3 +24V	
Outp.23	2 +24V	
Outp.24	1 +24V	
J16	J20	
Outp.25	8 +24V	
Outp.26	7 +24V	
Outp.27	6 +24V	
Outp.28	5 +24V	
Outp.29	4 +24V	
Outp.30	3 +24V	
Outp.31	2 +24V	
Outp.32	1 +24V	
J15		
PwrLED+24V	6	Output for Power LED
PwrLED out	5	
FaultLED+24V	4	Output for Fault LED
FaultLED out	3	
SpareLED +24v	2	Output for Spare LED
SpareLED out	1	Not in use
J13	J14	Terminals for monitored inputs. See Schematics
Inp.4 -	8	Inp.8 -
Inp.4 +	7	Inp.8 +
Inp.3 -	6	Inp.7 -
Inp.3 +	5	Inp.7 +
Inp.2 -	4	Inp.6 -
Inp.2 +	3	Inp.6 +
Inp.1 -	2	Inp.5 -
Inp.1 +	1	Inp.5 +
J12		Optional functions
	7	
	6	*1 To enable Light Intensity Control : move jumper 8 to position 2-3 for outputs 1-8
		Move jumper 9 to position 2-3 for outputs 9-16
		Move jumper 10 to position 2-3 for outputs 17-24
		Move jumper 11 to position 2-3 for outputs 25-32
	5	Light intensity control by pot.meter *1 Light intensity control is enabled as default.
	4	Option: Shorting 3 to 4 activates all outputs (Lamp Test)
	3	
	2	Normally closed. The wires from an external power supply's fault relay output can be connected to 1 and 2, replacing the jumper. A break in this circuit path makes the panel signal a fault in the system.
	1	Total loss of power will be signalled in the system as a missing panel.



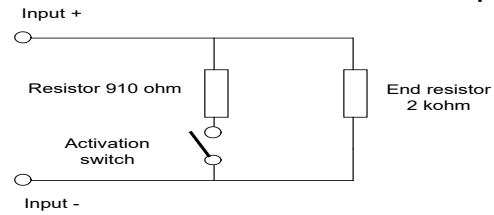
Connections for Panel Bus

7	6	5	4	3	2	1	7	6	5	4	3	2	1
Inst Gnd	B2	A2	0V	+	0V	+	Inst Gnd	B1	A1	0V	+	0V	+
			24V- 2		24V- 1					24V- 2		24V- 1	
BU/BV Mimic Panel Bus IN J5							BU/BV Mimic Panel Bus OUT J4						

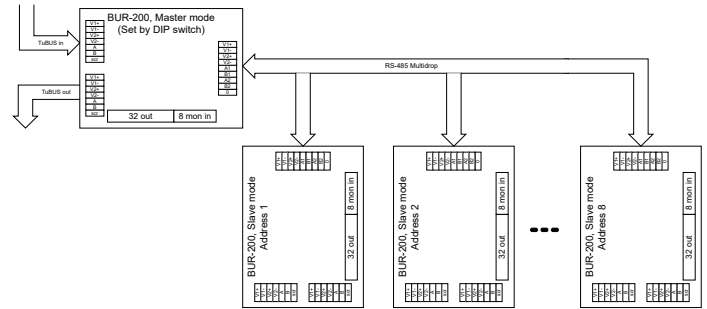
Connections for Slave Panels



Schematics – Terminals for monitored inputs



Connection Overview – Master/Slave Drivers



Circuit Board Layout

