Mimic Driver BUR-200

Autroprime 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 (see description below)
S2.2	
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

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	
Outp.9	8	+24V	
Outp.10	7	+24V	
Outp.11	6	+24V	
Outp.12	5	+24V	
Outp.13	4	+24V	
Outp.14	3	+24V	
Outp.15	2	+24V	
Outp.16	1	+24V	
J17		J21	
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	

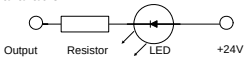
Terminals for LED outputs.

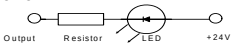
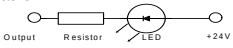
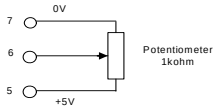
Each output is an open collector which is connected to 0V at activation.

Each output has an adjacent terminal for 24V supply to the LED.

Max.current per output is 25 mA. Max.total current for all 32 outputs: 500 mA

The LED must have a serial resistor. LEDs with flying leads and built-in serial resistors are available.



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			
Inp.4 -	8	J14	**Terminals for monitored inputs. See Schematics**
Inp.4 +	7	Inp.8 -	
Inp.3 -	6	Inp.8 +	
Inp.3 +	5	Inp.7 -	
Inp.2 -	4	Inp.7 +	
Inp.2 +	3	Inp.6 -	
Inp.1 -	2	Inp.6 +	
Inp.1 +	1	Inp.5 -	
		Inp.5 +	
J12		Optional functions	
	7		***1 To enable Light Intensity Control : move jumper 8 to position 2-3 for outputs 1-8**
	6		
	5	 **Light intensity control by pot.meter *1 Light intensity control is enabled as default.**	**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**
	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. Total loss of power will be signalled in the system as a missing panel.**	
	1		

Connections for Panel Bus

7	6	5	4	3	2	1
Inst Gnd	B2	A2	0V	+	0V	+
			24V- 2		24V- 1	

BU/BV Mimic Panel Bus IN J5

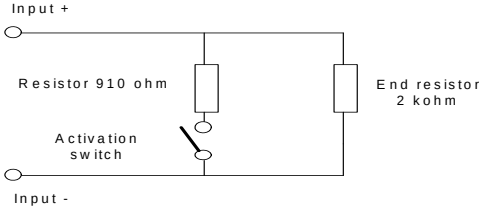
7	6	5	4	3	2	1
Inst Gnd	B1	A1	0V	+	0V	+
			24V- 2		24V- 1	

BU/BV Mimic Panel Bus OUT J4

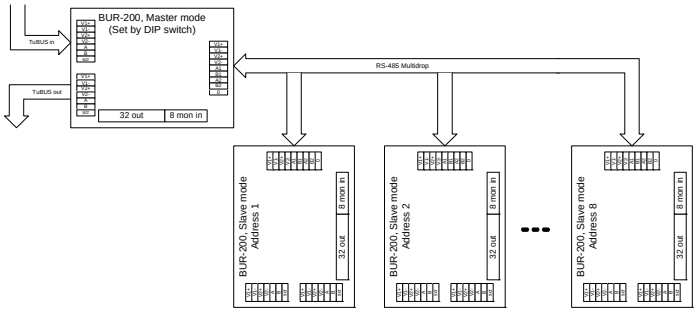
Connections for Slave Panels

Out 1		Out 2		RS-485				Inst.
+24V	0V	+24V	0V	A3	B3	A4	B4	Gnd.
9	8	7	6	5	4	3	2	1

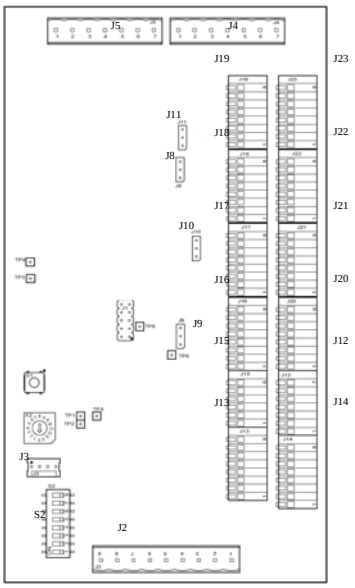
Schematics – Terminals for monitored inputs



Connection Overview – Master/Slave Drivers



Circuit Board Layout



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