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 daisychain 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 specificatio	ns
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	1	J23	I	
	_		{	
Outp.1	8	+24V	Į	
Outp.2	7	+24V		
Outp.3	6	+24V	1	
Outp.4	5	+24V	1	
	4		ł	
Outp.5		+24V		
Outp.6	3	+24V	ļ	
Outp.7	2	+24V		
Outp.8	1	+24V	i	
J18	r	J22		
	<u> </u>		Terminals for LED outputs.	
Outp.9	8	+24V	 	
Outp.10	7	+24V	Each output is an open coll which is connected to 0V at	
Outp.11	6	+24V	activation.	•
Outp.12	5	+24V	activation.	
			Each output has an adjacer	nt .
Outp.13	4	+24V	terminal for 24V supply to t	
Outp.14	3	+24V	LED.	iie
Outp.15	2	+24V	1	
	1	+24V	Max.current per output is 2	5 m 4
Outp.16	1		Max.total current for all 32	Jula.
J17		J21	outputs: 500 mA	
Outp.17	8	+24V		
Outp.18	7	+24V	The LED must have a seria	ı
Outp.19	6	+24V	resistor.	
			LEDs with flying leads and	
Outp.20	5	+24V	built-in serial resistors are	
Outp.21	4	+24V	available.	
Outp.22	3	+24V		
			{	 0
Outp.23	2	+24V		.041/
Outp.24	1	+24V	Output Resistor / LED	+24V
J16		J20	l	1
Outp.25	8	+24V	1	1
			{	1
Outp.26	7	+24V	1	1
Outp.27	6	+24V	l	1
Outp.28	5	+24V	1	1
			1	
Outp.29	4	+24V	1	
Outp.30	3	+24V	J	1
Outp.31	2	+24V	1	
Outp.32	1	+24V	i	
	H-	T24V		
J15				
PwrLED+24V	6	Output for Power LE	D	
		•		
Pour ED and	_	\circ	/ /	
PwrLED out	5	Output	Resistor LED +24V	
FaultLED+24V	4	Output for Fault LEI)	
	H	•		
		\hookrightarrow		
FaultLED out	3	Output	Resistor LED +24V	
1				
SpareLFD +24v	2	Output for Spare I F	D	
SpareLED +24v	2	Output for Spare LE	D	
	2	Output for Spare LE Not in use	D	
SpareLED out			D	
			D	
SpareLED out J13	1	Not in use	D	Terminals for
SpareLED out J13 Inp.4 -	1	Not in use	D	Terminals for
SpareLED out J13 Inp.4 - Inp.4 +	1 8 7	J14 Inp.8 -	D	monitored inputs.
SpareLED out J13 Inp.4 - Inp.4 + Inp.3 -	1 8 7 6	J14 Inp.8 -	D	monitored inputs. See
SpareLED out J13 Inp.4 - Inp.4 +	1 8 7	J14 Inp.8 -	D	monitored inputs.
SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.3 +	1 8 7 6 5	J14 Inp.8 - Inp.8 + Inp.7 -	D	monitored inputs. See
SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.2 -	1 8 7 6 5 4	J14 Inp.8 - Inp.8 + Inp.7 -	D	monitored inputs. See
SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.3 + Inp.2 - Inp.2 +	1 8 7 6 5 4 3	J14 Inp.8 - Inp.8 + Inp.7 - Inp.7 + Inp.6 -	D	monitored inputs. See
SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.2 -	1 8 7 6 5 4	J14 Inp.8 - Inp.8 + Inp.7 -	D	monitored inputs. See
SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.3 + Inp.2 - Inp.2 + Inp.1 -	1 8 7 6 5 4 3	J14 Inp.8 - Inp.8 + Inp.7 - Inp.7 - Inp.6 - Inp.6 +	D	monitored inputs. See
SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.3 + Inp.2 - Inp.2 +	1 8 7 6 5 4 3 2	J14 Inp.8 - Inp.8 + Inp.7 - Inp.7 + Inp.6 - Inp.6 - Inp.5 -	D	monitored inputs. See
SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.2 - Inp.2 + Inp.1 - Inp.1 +	1 8 7 6 5 4 3 2	J14 Inp.8 - Inp.8 + Inp.7 - Inp.7 + Inp.6 - Inp.6 + Inp.5 - Inp.5 +	D	monitored inputs. See
SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.3 + Inp.2 - Inp.2 + Inp.1 -	1 8 7 6 5 4 3 2	J14 Inp.8 - Inp.8 + Inp.7 - Inp.7 + Inp.6 - Inp.6 - Inp.5 -	D	monitored inputs. See Schematics
SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.2 - Inp.2 + Inp.1 - Inp.1 +	1 8 7 6 5 4 3	J14 Inp.8 - Inp.8 + Inp.7 - Inp.7 + Inp.6 - Inp.6 + Inp.5 - Inp.5 +	D	monitored inputs. See
SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.2 - Inp.2 + Inp.1 - Inp.1 +	1 8 7 6 5 4 3 2 1	J14 Inp.8 - Inp.8 + Inp.7 - Inp.7 + Inp.6 - Inp.6 + Inp.5 - Inp.5 +	D	monitored inputs. See Schematics
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SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.2 - Inp.2 + Inp.1 - Inp.1 +	1 8 7 6 5 4 3 2 1 7 6	Not in use J14 Inp.8 - Inp.8 + Inp.7 - Inp.7 + Inp.6 - Inp.5 - Inp.5 + Optional functions 7 6 7 Light intensity contropt.meter *1 Light intensity control.	Potentiometer 1kohm	*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 1-7-
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SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.2 - Inp.2 + Inp.1 - Inp.1 +	1 8 7 6 5 4 3 2 1 7 6	Not in use J14 Inp.8 - Inp.8 - Inp.7 - Inp.7 - Inp.6 - Inp.5 - Inp.5 - Inp.5 + Optional functions 7 6 5 Light intensity contructions Option: Shorting 3 to outputs (Lamp Test) Normally closed. The wiexternal power supply's connected to 1 and 2, reconnected to 1 and	Potentiometer Tkohm of the po	*1 To enable Light Intensity Control: move jumper 8 to position 2-3 for outputs 17-24 Move jumper 10 to position 2-3 for outputs 17-24 Move jumper 10 to position 2-3 for outputs 2-3 for ou
SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.2 - Inp.2 + Inp.1 - Inp.1 +	1 8 7 6 5 4 3 2 1 7 6	Not in use J14 Inp.8 - Inp.8 - Inp.7 - Inp.7 + Inp.6 - Inp.5 - Inp.5 - Optional functions Optional functions Option: Shorting 3 t outputs (Lamp Test) Normally closed. The wi external power supply's connected to 1 and 2, re jumper. A break in this c	Potentiometer 1kohm rol by rol is enabled as o 4 activates all res from an fault relay output can be placing the incruit path makes the	*1 To enable Light Intensity Control: move jumper 8 to position 2-3 for outputs 17-24 Move jumper 10 to position 2-3 for outputs 17-24 Move jumper 10 to position 2-3 for outputs 2-3 for ou
SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.2 - Inp.2 + Inp.1 - Inp.1 +	1 8 7 6 5 4 3 2 1 7 6	Not in use J14 Inp.8 - Inp.8 - Inp.7 - Inp.7 + Inp.6 - Inp.5 - Inp.5 - Inp.5 + Optional functions Optional functions Option Shorting 3 toutputs (Lamp Test) Normally closed. The wiexternal power supply's connected to 1 and 2, re jumper. A break in this opanel signal a fault in this opanel signal a fault in this opanel signal a fault in the superiority of the signal and the sig	Potentiometer 1kohm Pole of the state of th	*1 To enable Light Intensity Control: move jumper 8 to position 2-3 for outputs 17-24 Move jumper 10 to position 2-3 for outputs 17-24 Move jumper 10 to position 2-3 for outputs 2-3 for ou
SpareLED out J13 Inp.4 - Inp.4 + Inp.3 - Inp.2 - Inp.2 + Inp.1 - Inp.1 +	1 8 7 6 5 4 3 2 1 7 6	Not in use J14 Inp.8 - Inp.8 - Inp.7 - Inp.7 + Inp.6 - Inp.5 - Inp.5 - Inp.5 + Optional functions Optional functions Option Shorting 3 toutputs (Lamp Test) Normally closed. The wiexternal power supply's connected to 1 and 2, re jumper. A break in this opanel signal a fault in this opanel signal a fault in this opanel signal a fault in the superiority of the signal and the sig	Potentiometer 1kohm rol by rol is enabled as o 4 activates all res from an fault relay output can be placing the incruit path makes the	*1 To enable Light Intensity Control: move jumper 8 to position 2-3 for outputs 17-24 Move jumper 10 to position 2-3 for outputs 17-24 Move jumper 10 to position 2-3 for outputs 2-3 for ou

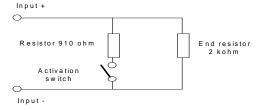
Connections for Panel Bus

7	6	5	4	3	2	1		7	6	5	4	3	2	1
Inst Gnd	B2	A2	0V	+	0V	+		Inst Gnd	В1	A1	0V	+	0V	+
			24\	/- 2	24\	/- 1					24\	/- 2	24\	/- 1
BU/B\	BU/BV Mimic Panel Bus IN J5							BU/B\	/ Mim	ic Pan	el Bu	s OU	ΤJ	4

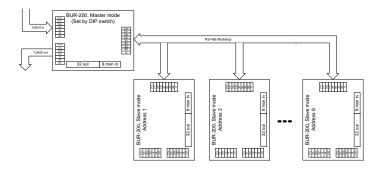
Connections for Slave Panels

I	Out 1		Ou	t 2		Inst.			
Γ	+24V 0V		+24V	0٧	A3	В3	A4	B4	Gnd.
Γ	9	8	7	6	5	4	3	2	1

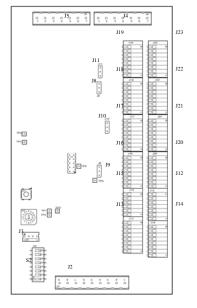
Schematics - Terminals for monitored inputs



Connection Overview - Master/Slave Drivers



Circuit Board Layout



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