

BINAR PRODUCTION SYSTEMS

# LP331 POWER & STATUS

*Power and Status Node for Binar's Quality Assurance System*

- Measures voltage and current usage
- Measures system errors and blockages on the CAN network
- Displays clear status updates on both screen and LEDs
- Additional ability to connect external power to the network



# LP331 POWER & STATUS

Industrial bus systems offer numerous advantages, but can pose challenges in troubleshooting, particularly when loops have been rebuilt and expanded over time.

The LP331 diagnostic unit provides a solution for CAN bus and serves as a connection point for additional feed to subsequent loops.

The device effortlessly connects to the current loop using M12 quick connectors for both CAN and additional 24VDC supply. The LP331 functions as a control point in the bus system, measuring not only the voltage at the end of the incoming loop but also the power consumption on the outgoing loop, transmission error "Error frames," and bus load "Bus load."

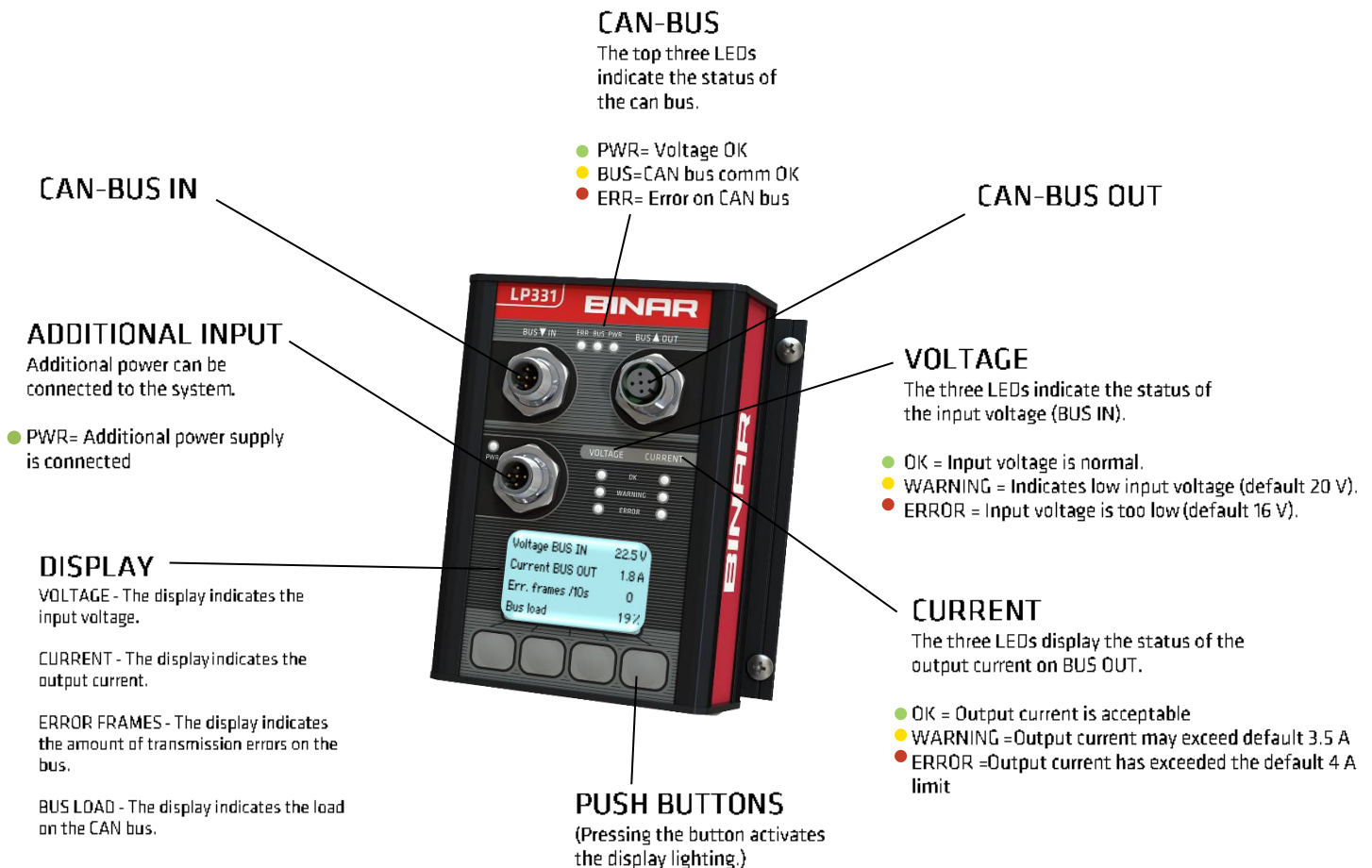
Moreover, the device comes with an embedded display that indicates measured values. The system provides real-time monitoring of the bus with LED indicators to display its status.

The advanced system can communicate with LP331 to read the bus's measured values and set output current limit values (factory set to 4 A). Measured values can be easily viewed on any HMI or SCADA system to remotely monitor and analyze the bus's status.

If the output current exceeds the preset limits, the LP331 will switch the voltage on the outgoing loop, and the alarm indication will light up.

This safety feature provides overcurrent protection on the outgoing loop.

The LP331 will reset automatically once the overload is rectified.



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# LP331 POWER & STATUS

## CONNECTIONS

CAN IN 5-POL M12-CONTACT PIN		CAN OUT 5-POL M12-CONTACT SLEEVE		ADDITIONAL IN 5-POL M12-CONTACT PIN	
PIN	Signal	PIN	Signal	PIN	Signal
1	Sh	1	Sh	1	NC
2	24V	2	24V	2	+24V
3	0V	3	0V	3	0V
4	CAN high	4	CAN high	4	NC
5	CAN low	5	CAN low	5	NC

## TECHNICAL DATA

Article number	51331
Supply Voltage	20 – 32 VDC
Power consumption	40 mA
Connectors	5-pol M12, A-coded
Data transfer	CAN, 125 kbit/s
CE	EN 61000-6-4 and EN 61000-6-2
Temperature area	0 – 50 °C
Protection	IP51
Mounting	Screw mounting $\varnothing$ 6 mm
Weight	430 g
Dimensions	b124 x h129 x d52 mm

## ADDRESSING

### Opt. 1 Address knob

The device is equipped with two address knobs located at the bottom, which can be used to set the CAN-ID between 1 and 61. This setting enables the device to be compatible with previous versions and can be seamlessly integrated with buses that use standard CAN.

### Opt. 2 MAC Address

The device possesses a distinctive MAC address that can be located on the label situated at the bottom edge of the display.

The address is in the form of a hexadecimal number and barcode.

Activating the address knob of CAN-ID zero furnishes the device with its unique MAC address.

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