

PRODUCTION SYSTEM

LP373 SAM-UNIT

- Stop, Andon, and Material Shortage Alarm Unit for Binar's Andon System
- Quick connectors make installation easy and adaptable
- A useful tool that assists the Lean Production working method



Ersätter SAM-enhet LP219

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LP373 SAM-UNIT

The LP373 alarm unit can detect shortages in mounting and raise alarms, which can be activated manually or automatically by connected production equipment. The alarms are vital for catching common issues such as poor quality, machine stoppages, and material shortages as quickly and efficiently as possible. The unit's digital I/O enables direct connection of external signals, such as Andon or total error.

The SAM unit is designed to swiftly request assistance to promptly address any disruptions. Its operational methodology is outlined in Lean Production and TPS.



STOP

Pressing the button activates the stop alarm, causing a red light to appear. This alarm is frequently used as an escalated alert.

ANDON

When the button is pressed, a yellow light appears, signaling that the duck has been activated.

MATERIALBRIST

Pressing the button activates the material shortage alarm, causing a blue light to become visible.

STATUSINDICATIONS

CAN-BUS

PWR = Voltage out 24VDC OK
 BUS = CAN-bus com OK
 ERR = Error on CAN-bus



ADDRESSING

Opt. 1

The unit features two address knobs on its back panel to configure CAN-ID settings ranging from 1 to 61. Additionally, the setup process enhances backward compatibility, resulting in the replacement of the LP373.



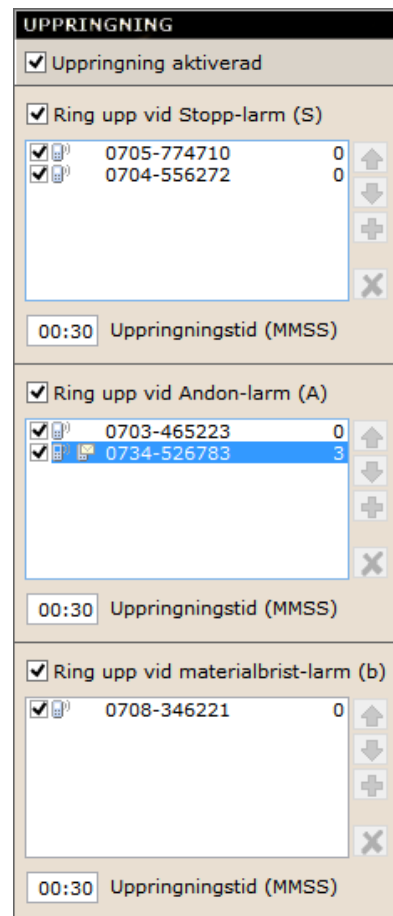
Opt. 2

By adjusting the address knob to CAN-ID 0, the device obtains the distinctive MAC address represented in a hexadecimal number and barcode format. To utilize the MAC address, it is essential to have both the Gateway LP301 and the necessary support in the parent system.



VISUALIZATION

The device can be connected to Binar's BiDisp to visualize alarm categories. The display indicates the stations where a stop has occurred, stations requiring aid at Andon, and stations needing material replenishment.



ALARM

An alarm can be activated if there is a stoppage, low material levels, or if the machine is out of breath. These alarms can be linked to specific phone numbers, which will then call the

CONNECTIONS



CAN IN

5-pol M12-contact pin

Pin	Signal
1	0V
2	+24V
3	0V
4	CAN High
5	CAN Low



CAN UT

5-pol M12-contact sleeve

Pin	Signal
1	0V
2	+24V
3	0V
4	CAN High
5	CAN Low



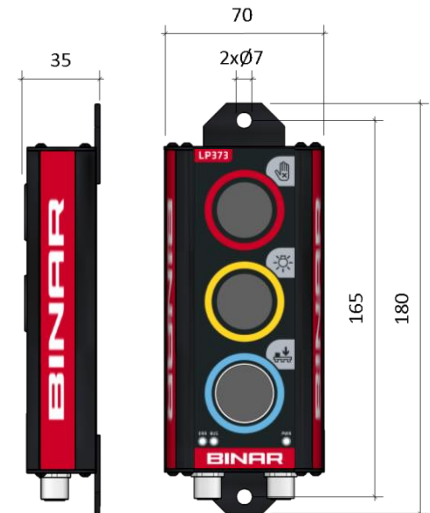
I/O

4-pol M8-contact sleeve

Pin	Signal
1	+24V
2	OUT 1/IN 5
3	0V
4	IN 1

TECHINCAL DATA

Article number	51705
Supply voltage	20-32VDC
Own consumption	130mA
Connector CAN	M12 Stift (CAN-in), M12 sleeve (CAN-ut)
Connector I/O-interface	M8 sleeve
Data transfer	CAN, 125 kbit/s
CE	EN 61000-6-4 and EN 61000-6-2
Temperature area	0 – 50 °C
Protection	IP51
Weight	400 g
Mounting	Screw montage
Dimensions	b70 x d35 x h180



The superior system connects to the device's M12 connector CAN-in via a gateway and CAN bus. The unit draws power from the same connector.

The Controller Area Network, or CAN, is a bus that facilitates secure and rapid communication among system components.

To connect multiple devices to the system, the device's CAN-out connects the bus to the next device. A terminating resistor, LP239, must be connected to the CAN output of the first and last unit in the system to ensure proper functionality of the CAN bus.

SEE ALSO



LP376 art. 51708

The KAF unit is utilized in Takt and Poka Yoke systems. The device features illuminated push buttons for Klar, Andon, and RFID to bypass quality assurance.



LP378 art. 51709

The KEF tool monitoring device is utilized in a quality assurance system. It includes indicator lights for tool usage and two buttons for teach-in monitoring. Additionally, it features an RFID reader for the bypass function.

INSTRUCTION TO REPLACE LP219

LP219

LP373

CONNECTIONS



ADDRESSING

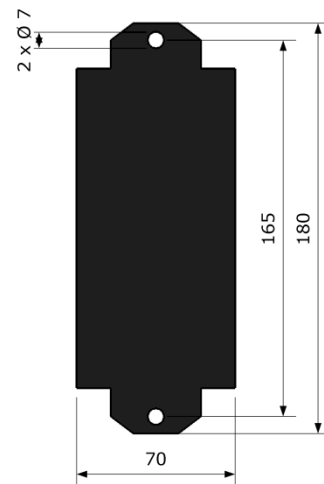
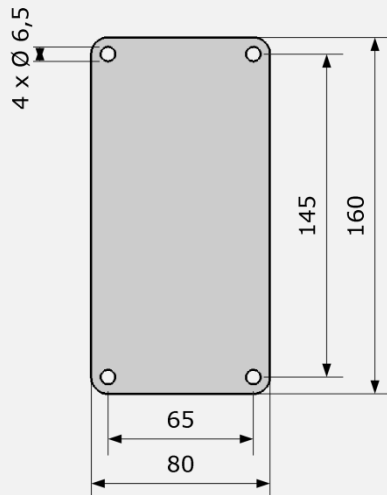
The address knob can be accessed by unscrewing the cover of the device.

Address knob is located on the device's rear



panel.

HOLE PICTURE (CM)



Binar Solutions AB

Box 2001 • SE-461 11 TROLLHÄTTAN • Sweden
tel +46 (0)520 47 32 00 • fax +46 (0)520 47 32 10
e-post info@binar.se • webb www.binarsolutions.com



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