

PRODUCTION SYSTEM

# LP376 KAF-UNIT

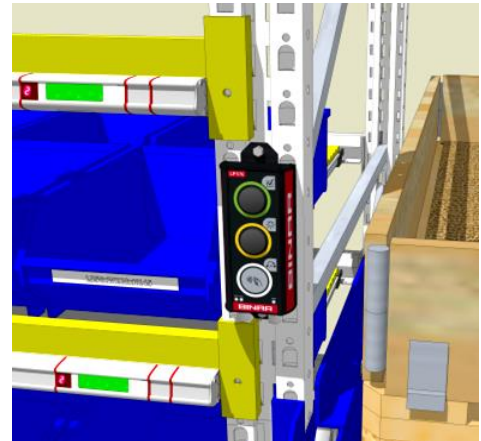
- Clear, Andon, and Bypass unit for Binar's quality assurance system.
- Quick connectors that make installation a breeze.
- An efficient tool that supports Lean Production methods.



# LP376 KAF-UNIT

The LP376 operator unit is designed for timed flows in Stop & Go and Poka Yoke systems for quality assurance. Functionality may vary slightly depending on the application.

The device features lamp pushbuttons for Ready and Andon functions, as well as RFID for bypassing quality assurance. With its digital I/O (input and output), it is possible to directly connect external signals such as pick indication OK or external Andon signal from a button or string. The KAF unit is specifically designed to support the working method of Lean Production and TPS.



## READY

When the button illuminates green, the task at the current station has been successfully completed and approved.

## ANDON

If the button illuminates a yellow light, it means that the Andon alarm has been activated.

## BYPASS

Authorized personnel can bypass tools with the use of a coded RFID tag approved by the device's reader.

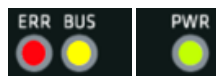
## BYPASSES

- The process can be reset to its initial state and restarted.
- The device can enter recipe code mode to await commands from an I/O interface, specifically the LP315 or LP317, connected to its I/O, digital input, and output.
- Process steps can be bypassed, classifying the run as completed and approved by the system.

## STATUS INDICATIONS

### CAN-BUSS

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



## ADDRESSING

### Opt. 1

The device features two address knobs that enable the configuration of CAN-ID values ranging from 1 to 61. The setup process ensures backward compatibility and serves as a replacement for the LP216 model.



### 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.



## RFID.

The LP376 can be bypassed by using an RFID tag, while its predecessor, the LP216, is bypassed with a key switch.

Radio Frequency Identification enables contactless reading of information within a short range. The RFID tag features a pre-programmed number of 421, which requires approval from the parent system for bypassing to occur.

**RFID-tag sold separately. Art. 35175**

## 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

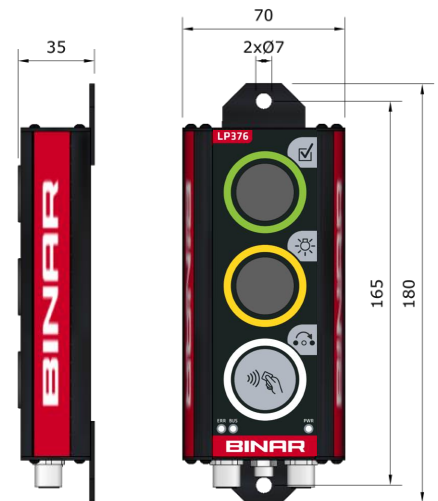
The superior system connects to the device's M12 connector CAN-in via a gateway and CAN bus. The unit draws power from the same connector.

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.

## TECHNICAL DATA

Article number	51708
Supply voltage	20-32VDC
Own consumption	110mA
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



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## SEE ALSO



### LP373 art 51705

The SAM unit is equipped with three buttons that are used for Stop, Andon, and Material Shortage alarms in an Andon system.



### 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.

# INSTRUCTIONS TO REPLACE LP216

LP216

LP376

## CONNECTIONS



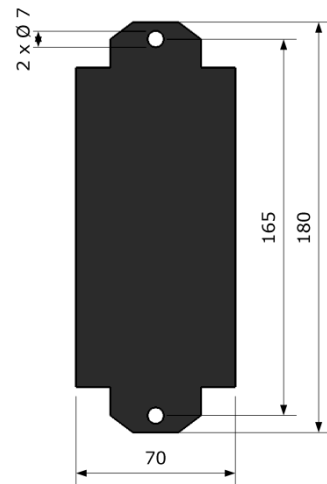
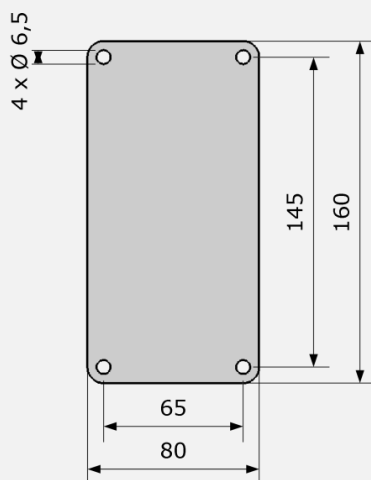
## ADDRESSING

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



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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