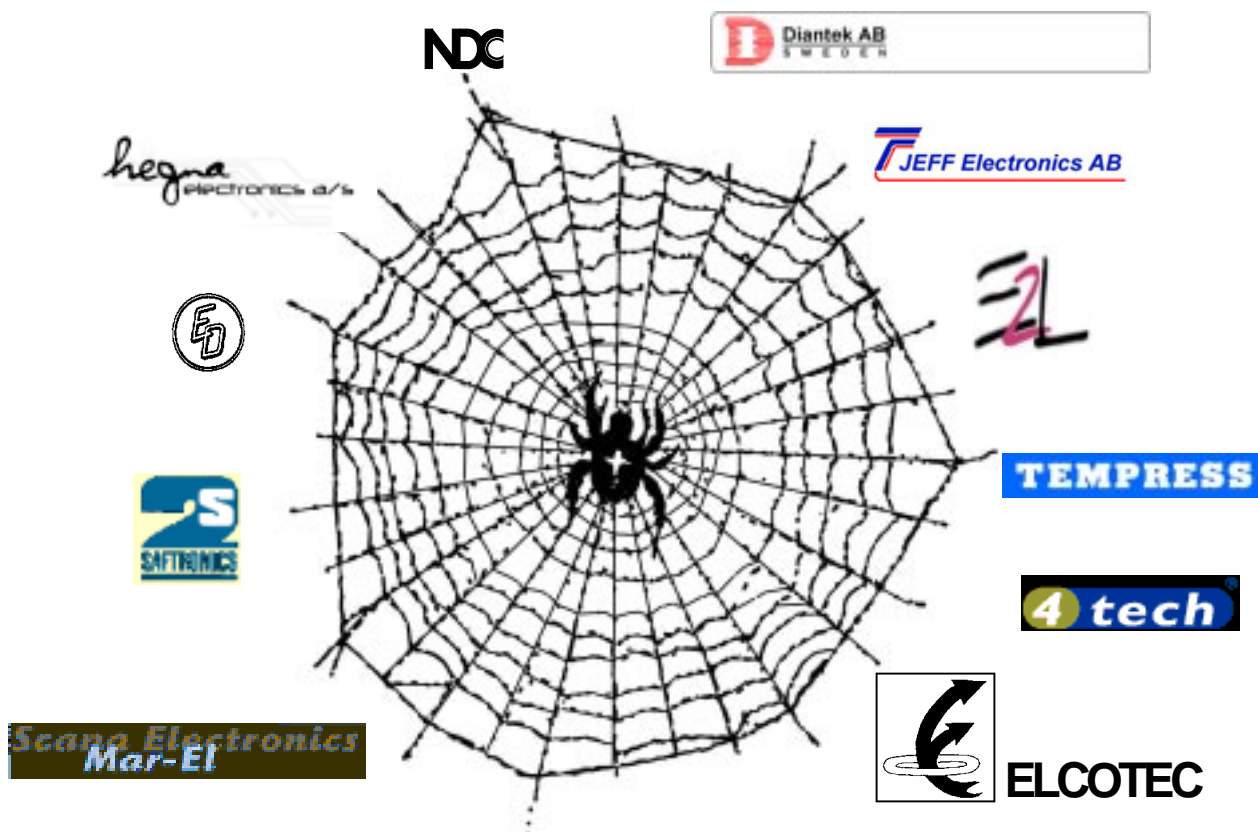


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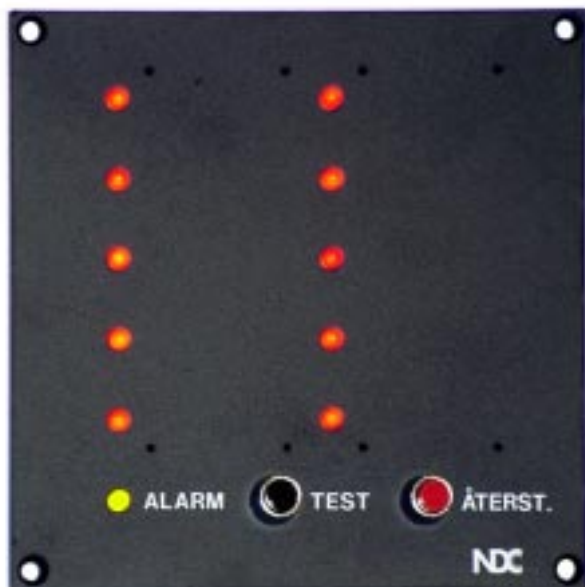


**ALARM DISPLAY UNIT**  
**LLB 10 AB 24V**



# ALARM UNIT LLB 10 A/B

## FOR SIMPLE MONITORING APPLICATIONS



- **10-channel unit for normally open sensor contacts (No)**
- **Group alarm output, with adjustable time delay (A-B alarm)**
- **No memory or flashing light**
- **Voltage failure indication**
- **DIN dimensions, 144x144x35 mm**
- **Certificated in CE-standards EN 50 082-2**

### ADVANTAGES AND OPERATION

LLB-10 is a very compact unit and forms part of the NDC series of DIN products. In its standard version it is designed for normally open contacts and is especially suitable for simple monitoring applications. In spite of its low price, the LLB-10 is superior to ordinary "diode type" alarms, since it gives a new alarm for each new fault. The output relay has an adjustable time delay to avoid unnecessary alarms, for example, when connected to a level sensor.

When a sensor contact closes, the corresponding indicator LED is lit on the panel. After the pre-set time, the output contact is activated and the ALARM indicator is illuminated.

The signal is acknowledged by pressing the red "ÅTERSTÄLLN." button, which causes the output contact to reset and extinguishes the ALARM LED. When the fault has been corrected and the sensor has returned to its normal state, the fault indicator LED on the panel goes out. If the sensor contact returns to normal before being acknowledgement, the unit returns to normal status.

**Functions test** can be done with a push at the button TEST, which simulate fault at the panel.

**Lamp test** can be done with a push at the button TEST + ÅTERST. button at same time.

LLB-10 can be fitted with a legend for each alarm channel, or with a common legend for all 5 channels.

### SECURITY

LLB-10 AB is designed for severe mechanical and electrical environmental conditions. It is provided with protection against polarity reversal and accidental connection of voltage, interruptions etc. The unit is designed to indicate voltage failures, each output group relay is normally activated. In the alarm state, the relay is deactivated and a signal can be given with, for example, a horn. The same thing happens when the supply voltage is interrupted and the horn have different supply.

Its limited size and depth allow it to be easily mounted in panels, walls and similar spaces.

Normal function testing is carried out by pressing the test button which simulates faults on the alarm channels in the system.

The unit is in accordance with CE-standards: EN 50 082-2; IEC 801-2:1991; ENV 50 140; ENV 50 141; IEC 801-4

### INSTALLATION

LLB-10 AB is designed for panel, cabinet or wall mounting. It is made only in the master version. Systems with more than 10 alarm channels require additional panels. Connection is made to the unit by an easily accessible screw terminal block, which can be fitted with a corresponding terminal strip. The use of this system means that cable connections need not be disturbed once the installation is complete, and the unit can be disconnected very quickly.

### SPECIFICATION

Supply voltage:	24V AC/DC ± 20%
Supply current:	Normal condition 0,1A Alarm condition 0,4A
Time delay:	0,5-20 sec. adjustable common time for each alarm group.
Output contacts:	Change-over contact rated (A-B alarm) max 100V 100VA resistive load.
Front:	Dull, black aluminium
Main dimension:	DIN 144x144x35 mm
Panel recess:	125x125 mm
Legends:	Space for individual channel legends or common 5 channel legends
Indicators:	Red LED for unacknowledged alarm

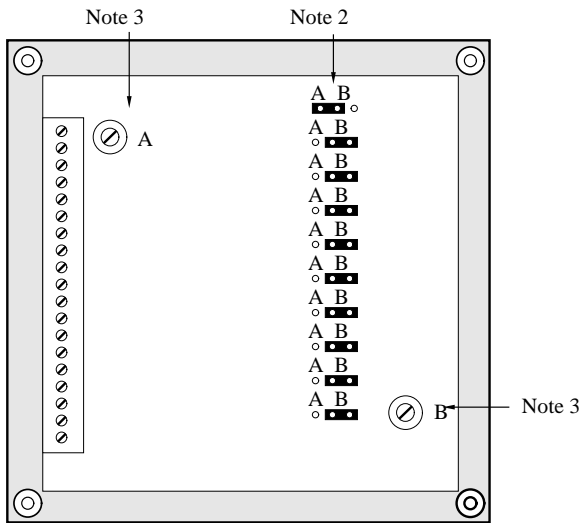
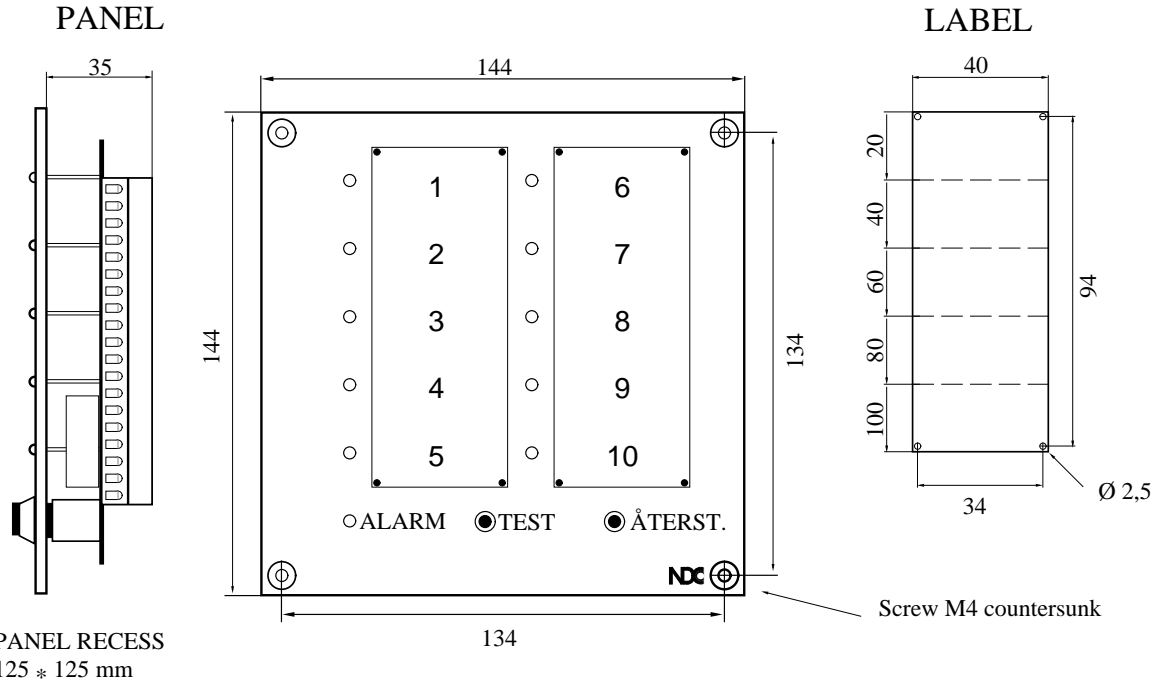


## ORDERING INSTRUCTIONS

12006

LLB 10 AB E 64 411 10

### DIMENSION



**Note 2**  
 B A  
 Group A  
 A B  
 Group B

**Note 3**  
 Time delay adjustment  
 MIN (⊙) MAX

### CONNECTION

