

ALARM DISPLAY UNIT LLC 10

UNIVERSAL PANEL IN THE "DIN" SERIES FOR USE BY PROCESS INDUSTRIES AND MACHINE MANUFACTURERS. Manufacture NDC



- **10 channel unit for both normally open and closed sensor contacts (No/Nc).**
- **Alarm grouping in 2 categories (A-B alarms)**
- **Memory and flashing light**
- **Time delay for each alarm channel**
- **Running light indicator**
- **Group indication**
- **Voltage failure indication**
- **Prepared for datatransfer**
- **Certificated in CE-standards EN 50 082-2**

ADVANTAGES AND OPERATION

LLC-10 is a compact alarm display unit in the "DIN"-series. It is designed for exacting applications. The unit is programmable for use with either normally open or closed sensor contacts, and with adjustable time delay for each alarm channels. The alarm channels can be connected to either of the two output groups (A and B alarms). At the panel, the sensors indicator flashes when the pre-set time delay has elapsed. At the same time the output group to which it is connected, is activated. The signal is acknowledged by pressing the RESET button. This releases the output contact and the flashing light becomes steady.

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 + RESET button at same time.

When the fault has been corrected and the sensor contact has returned to its normal state, the indicator lamp goes out. If the fault self-corrects and the sensor contact returns before acknowledgement, the fault remains in the unit memory, the light flashes and the output contact remains activated, until the accept button is pressed.

LLC-10 is equipped with a channel memory. The unit is always ready to receive new alarm signals, independent of system status. The panel can be provided with legends for each alarm channel or with a common 10 points legend.

SECURITY

LLC-10 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. Its limited size and depth allow it to be easily mounted in panels, walls and similar spaces.

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; SNEN 61010.

INSTALLATION

LLC-10 is designed for panel, wall or cabinet mounting, and is supplied 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.

SPECIFICATIONS

Supply voltage: 24V AC/DC \pm 20%; 0,1-0,2A

Time delay: Individually adjustable time 0,5-20 sec. each channel.

Ambient temperature: min -10°C max 55°C.

Hygroscopic moisture: max 80% not condensed.

Output contacts: Isolated volt-free contact per alarm group (A and B alarms). Selection device on each alarm point contact rated 24V 1A resistive load. Max 30V RMS, or 60VDC (Selv or Telv).

Front: Dull black aluminium with plastic cover IP44 and together with gasket IP65

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

12040 LLC 10

Extra accessories:
1084 Relay circuit board for an interface to computer or remote alarms.



MAIN DIMENSION

