

MICROCOMPUTER BASED LEVEL CONTROLLER BLC100/101

- Up to 3 levels and 3 relay outputs (independent)
- Variant for 2 dependent levels plus alarm
- Input from conductivity cell electrodes
- **Drainage and supply control**
- **Output activation threshold adjustment**
- Indication for reached level
- Low cost

DESCRIPTION

The BLC10X controllers are low-cost electronic level controllers / indicators available for DIN-rail and panel mounting. They employ measurement of electrical conductivity of the liquid between electrodes or between electrode and metal vessel case. BLC10X are applicable for liquids with relatively high conductivity that are normally used in chemical, paper, food, wine, biotechnological industries, etc. The level indicator BLC10X allows monitoring 1 or 2 fixed levels, and BLC10Xallows monitoring 1, 2, or 3 fixed levels. When each level is reached, the corresponding relay is activated or deactivated (drainage / supply control). BLC101 is also available as a drainage or supply level controller with alarm relay (see model BLC105). The BLC10Xlevel indicator / controller is based on a high-tech microprocessor circuit, guaranteeing accuracy and stability, preventing electrolytic polarization, and ensuring stable operation. The direction of relay action at level reach as well as the connection (dependence) between levels is programmable. Output relays may be used for signaling reached level or controlling electrical actuators. The possibility to adjust output activation threshold as well as the LED indication makes the BLC10X level indicator a solution for a wide range of level related problems.

SPECIFICATIONS GENERAL

: Panel mount to DIN or DIN-rail Construction

: Screw terminals Wiring

Housing material: Plastic

INPUT Resistive

: Conductive cell electrodes

Activation threshold : \leq 1 to 500 k Ω Release threshold : > 1 to $10M\Omega$

Threshold adjustment: By trimmers on front panel Operation modes : Selected by jumpers Independent levels : Each level controls a relay Dependent levels : 1relay, controlled by 2 levels
Probe voltage : 18 VAC

Probe voltage

INDICATION

Indication power on : LED

Indication operation: 3 LEDs for reached levels

OUTPUT

: 6A/250VAC NO/NC contact Relay

Solid state : SSR 1A/250VAC Transistor gate : Open collector 40mA/40V

Extern SSR : 24V/50mA

Output action : Selected by jumpers Drainage vessel emptying: Activates above the level Supply vessel filling : deactivates above the level



INSTALLATION

: 230,115 or 24VAC, 90 to 250VAC Supply

Consumption : Max 2VA Ambient temp : -20 to 65°C Humidity 0-85% Dimension

W48 x H96 x D120mm or

W69 x H115 x D53mm (DIN-rail)

Weight 500g

: IP44 front/IP65 DIN-rail terminals IP20 **Protection class EMC** : EN 50081-1, EN 50082-2, EN 61010-1,

73/23/EEC & 89/336/EEC



ORDER INFORMATION BLC10X-

TYPE (X) MOUNTING SUPPLY **OUTPUT INPUT**

0 2 levels V Panel X None A None X Specify 1 3 levels R DIN-rail A 230VAC C Relay B Cond

B 115VAC D SSR C 90-250 E NPN J Ext.SSR VAC E 24VAC **ADJUSTMENT**

X None A Sensity adjustment

Example: BLC101-RACCCBBB

3 levels-DIN-rail, 230VAC, 3 x Relay, 3 x Coductive



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