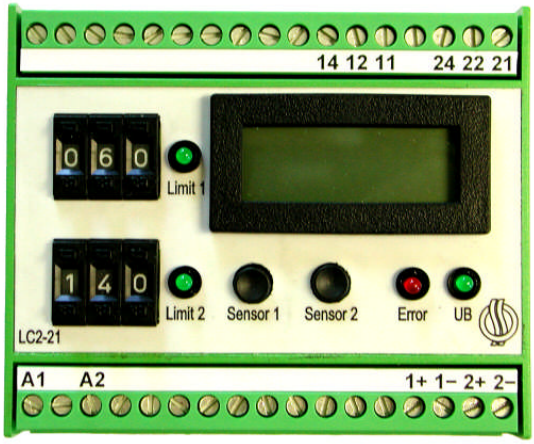
OSSBERGER

Level Difference Monitor LC2-21



The level difference monitor LC 2-21 permits controlling of the difference between two water levels. It contains two switching marks which are set up independently, the first one (Limit 1) is referred to for the trash rack cleaner start-up and the second one (Limit 2) for fault signalizing.

Description of Functioning:

Two two-conductor pressure sensors register the water levels in front of and behind the screen. The difference between the two signals is formed within the device and compared with the limit values which have been set up. In case a limit value is exceeded the corresponding relay reacts and the pertaining signal lamp “Limit” is lit.

The device contains some sensor monitoring equipment, reacting in case of cable fraction, short-circuit on the sensor cable or a defective pressure sensor. In case the sensor monitoring has reacted

- relay 1 is deactivated irrespective of the limit values which have been set up and the actual level conditions. So trash rack cleaners are prevented from running in permanent service in case of trouble.
- relay 2 is activated
- the red signal lamp “error“ is activated.

Display:

In normal service the LCD display shows the actual level difference. By actuating the “Sensor 1“ button the water level is displayed which actually exists in front of the screen. Actuating the “sensor 2“ button the water level behind the screen is displayed.

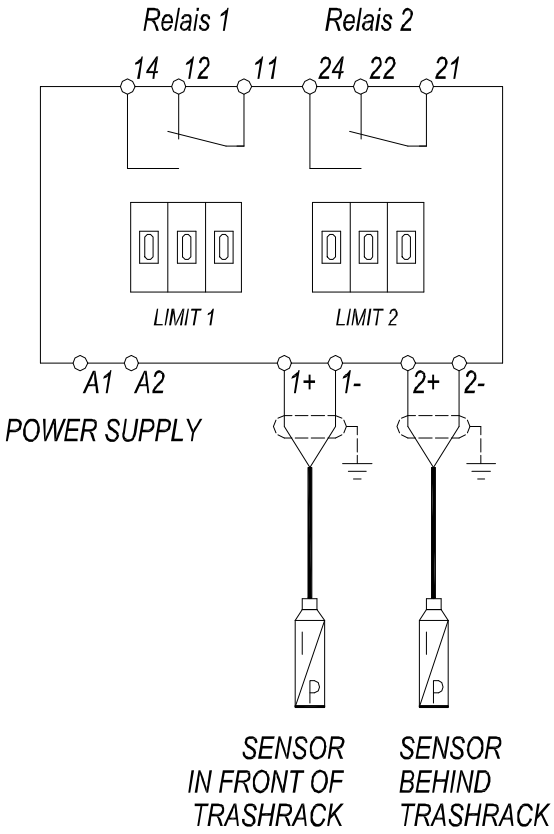
Setting:

At the upper decade switch limit value 1 is set up, which is essential for starting-up of the trash rack cleaner. At the lower decade switch limit value 2 is set up. The same should always be higher than limit value 1.

Setting is performed at type switches ”+“ (beneath) and “–“ (above) of the corresponding decade switch point. The unit at issue is millimeters water column (mmwc). If, for example, the trash rack cleaner should start at 5 cm water level difference set up “050“ at the upper decade switch (≙50 mmwc).

The signal lamps besides the decade switches are lit if the limit value at issue has been exceeded and the relay has reacted.

Connection diagram:



Technical Data:

Auxiliary energy:	see nameplate of unit
Entries:	4...20 mA (with measuring transformer feeding)
Switch power of relays:	6A / 250V~ / AC1
Power consumption:	appr. 5VA
Type of protection:	IP 20
Dimensions:	Width 90 mm, Height 75 mm, Depth 105 mm
Weight:	440 g

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