



conductivity level switch

benefits

- specially designed for applications in the food industry
- Detection of interface layers between liquids with different levels of conductivity (product, foam)
- adjustable delay helps to avoid unwanted switching
- Contact resistance does not influence measurement

Application

Suitable for use with electrically conductive media, predominantly liquids, e.g. milk, wine, fruit juices, waste water or lyes. Also suitable for foaming or adhesive media, e.g. beer or yoghurt.

Description

The CoFox® ELT 680 level switch operates on the basis of conductivity. A delay can be set to avoid undesired switching as a result of surface turbulence. The sensitivity and adjustment range of the device have been designed in such a way as to keep contact resistance from impairing the reliability of the unit, e.g. caused by foam on the electrode insulator (in breweries, dairies and ice-cream plants). Furthermore, the unit is capable of interface layer detection between liquids having different levels of conductivity (e.g. water and milk) in pipes and tanks.

The unit can be operated either with one electrode as a single-point controller or with two electrodes as a dependent on-off controller.

Technical Specifications

Adjustment range

variable adjustment

range HR: 1 kOhm to 100 kOhm

range LR: 50 Ohm to 2,000 Ohm

Operating temperature range

Ambient: -10/+60 °C

probe circuit

max. AC 3 V

Switching output

Relay contact: 1 voltage-free changeover contact

Contact rating: AC 250 V, 750 VA

Contact rating: DC 12 V, 1 A

visual indication

green LED

time delay

adjustable from 0 to 20 s

Fail-safe mode

integrated selector for min. or max. fail-safe mode (low/high)

Housing

DIN rail housing made of impact-resistant plastic (ABS)
W x H x D: 73 x 55 x 112 mm
Degree of protection: IP 40 (EN 60529)

Scope of delivery

- Level switch without probe

Versions

			Part no.
Level switches CoFox® ELT 680	AC 230 V		53681
Level switches CoFox® ELT 680	DC 24 V		53682

-  in-stock items
-  Non-stock items