



conductivity level switch

benefits

- for conductive media such as water, waste water, emulsions and many more
- Min. or max. fail-safe mode adjustable
- two voltage-free relay outputs
- low response threshold

Application

Suitable for use with electrically conductive liquids whose level is to be limited or controlled. The liquids such as water, emulsions or waste water must neither foam excessively nor be viscous or adhesive (bridging). CoFox® ELT 8 can be operated with one probe as a level switch or with two probes for controlling pumps, valves, etc (start/stop). Can also be used as a water alarm unit, for example in control stations or IT rooms, in conjunction with floor water probe BWS 10-1.

Description

Level switch in wall mounting housing with visual alarm and operation indicator. CoFox® ELT 8 is designed for continuous operation and operates on the basis of conductivity. If a probe electrode is in contact with the liquid, this closes a circuit to the tank wall or to a second electrode via the liquid. The relay outputs switch. The sensitivity is adjustable. 2 voltage-free relay contacts are provided for switching functions.

Switching functions:

Level switch:

The relay switches in case of contact or loss of contact of the probe with the liquid. The switching point must be adjusted according to the conductivity of the liquid.

Level controller for filling:

A minimum of 2 probe rods are required. Set the internal switch to "Max" (H). The relay switches on when the min. probe loses contact with the liquid. Relay de-energises when the max. probe comes into contact with the liquid.

Level controller for emptying:

A minimum of 2 probe rods are required. Set the internal switch to "Min" (L). The relay switches on when the max. and min. probes come into contact with the liquid. The relay de-energises when the min. probe loses contact with the liquid.

Technical Specifications

probe connections

1 probe circuit
(several probes can be connected in parallel)

Response threshold

2.5 – 60 kOhm
fully adjustable

Operating temperature range

Ambient: -10/+60 °C

probe circuit

max. AC 3 V

Switching output

Relay contact: 2 voltage-free changeover contacts
Contact rating: AC 250 V, 2 A

visual indication

LED green: Mains operation
LED red: alarm condition

Fail-safe mode

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

Housing

wall mounting housing with plug-in base made of impact-resistant plastic (ABS)

W x H x D: 53 x 113 x 108 mm

Weight: 400 g

Degree of protection: IP 30 (EN 60529)

Scope of delivery

- Level switch without probe

Versions

Part no.

Level switches CoFox® ELT 8	DC 24 V		53503A
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 in-stock items

 Non-stock items